

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
3863	34231	A	3903	174	1599	VLHAVGNQVQGC PGPEVHVCG WRPGCVRLQLHV VGRADGPE CDLCAVWPGGGDV*PAVPGAV PHVTQCEPQGHYPYGE GTGAGA YCAALCGPPGARGHCGQEARQ PQVRTCQGQERRRDCQDLL*E AGGQEAPGAERPSAG*ASRGTP RAAATHPPRTASPGEGQH V*VP AHVGGARPGAWQRHPGLHQY HRPQHLEPPAQPD EPHQDP*HL PGQRPAPAVEAEPGQQAPS\KP CPPPEPSAPQDGVPAENGLPQG DP/GAIA PRAQAPDSPCGRCTSP GQQ*YWLGP GAPQRGSSPEWD RP*ATQDGRPRPRPTAAAICDP G*PREPRGGAPQWAGWGRRR **RLRNPQ*PGQP\SGSSGRGPG PRRPSVASSVSE/RVLRGERALS PSPEAPLRASGQRANPTTAPAA ECPPYNPRDLCWTPGWLPMGP ESGKR SRCVEEDAGPALHRQ GGTDGET**TGRGGNRPGPYGR
3864	34232	A	3904	331	1120	HKDRFWQLQNDSCFLHSPGER QWLGGPRSDTFGPQVLFHVG I CSQRA/HPAGPGHRLPEGR*PP HRSQRHPPRSRKPYLA*PPDMC VATDRRTQT PRDFPPLGR*KPH GTLRSAACPAGRVSPSPRPRGL PAPPPKSHLCGPGVGRGR*QLLP PHPGSPKGERGWTASPGAARG GPGPAPAPRP\RASWSQPSVTFP LPLAGLA/GHPGSRTEPAWKAG GAAARPGPELPRDLLQAGSTD T ASGEQLAAGPWTGKEISGRARP RL
3865	34233	A	3905	2	415	YTILTEK*KLSKLST*WVHQDQ LQKREELSMEILNK*DQDSEAY PQRTVTGEETWLYQYDPPPLPR SLPPPQHTAPVGA*S/DWGG*E LPPGLNGDKLAHHSPTPFLSFSG LLFVDWL*SQLLSLFGLFTQGV I RIFI

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3866	34234	A	3906	1	4527	MGFCCRECRPRLKGRPCIQHA GPVAAFQVATPYSLYVCPEGQ NVTLCRLLGPVDKGHDVTFY KTWYRSSRGEVQTCSERRPIRN LTFQDLHLHHGGHQAANTSHD LAQRHGLEASDHGHNFSITMR NLTLDSGLYCCLVVEIRHHHS EHRVHGAMELQVQTGKDAPSN CVVYPSSQDSESNHGNNFRIH VSNGLLMRGPRPLDRERNSSHV LIVEAYNHDLGPMRSSVRMRK LRQSTALAQHWGTALDR
3867	34235	A	3907	1	2180	MALTFPCRKFEWYGRRQPEVR YSVPASHQLKATDADEGEFGR VWYRILHGNHGNFRIHVSNG LLMRGPRPLDRERNSSHVLIVE AYNHDLGPMRSSVRMRKLRQS TALDSTGQAQHWTESRSGSPG SPVAPTCASART*QTSASIVHLCL SGKSHHAWPP*TPFKLYYVHE YSAHHKENLVLVIVYVEDIND EAPVFTQQQYSRLGLRETAGIG TSVIVVQATDRDSDGGLVNY RILSGAEGKFEIDESTGLIITVNY LDYETKTSYMMNVSATDQAPP FNQGFCSVYITLLNELDEAVQF SNASYEAAILENLALGTEIVRV QAYSIDNLNQITYRFDAYTSTQ AKALFKIDAITRILGTQMDTKM NKTLSPQRVLRLEVEMELIQD ANQSATRRCAENYNRGVVEPL RAQQSYLAGEAGRLHGRGGFP VECEREQIQTECPGEVMPDR GSDMEGVITVQGLVDREKGF YTLTVVADDGGPKVDSTVVSG TRVYITVLDENDNSPRFDTSDS AVSIPEDCPVGQRVATVKAWD PDAGSNGQVVFSLASGNIAGAF EIVTTNDSIGEVFVARPLDREEL DHYILQVVASDRGTPPRKKDHI LQVTILDINDNPPVIESPFGYNV SVNENVGGGTAVVQVRATDRD IGINSVLSSYYITEGNKDMTFRM DRISGEIATRPAPPDRERQSFYH

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3868	34236	A	3908	603	1395	RGRPRGSPFIPTRAPREKKR*EE VGGHKREQTG*GGGERRKPPN PQHEPKERGWC SRVPEEPQ/RK RRSARARPKKL*REKRRRGRPK RCLW*TGRHPSHHPRTHQC*F* WRK/REEGKERKKEQPAHAGQ KRRKAARHRRRRRRRERTDEK NRTWTRRRREKAGQDEKREGE HGQKRSQQGRESRRDGRARTR KERRQKRENDNRARRRQQAER EKT KSVKRRQTTQAAEEVRQA RENEAREPQQRQHSRRRKEKE EMRAPRSKQ
3869	34237	A	3909	1	548	
3870	34238	A	3910	1	1803	
3871	34239	A	3911	1	279	
3872	34240	A	3912	1	506	MCYSRQSNLGTFGEGKIKGSEV IDECPRSSRYQDLQELQNKTKL TVLEGDILDESCLRACQDMSV IIHTTSIIDIIIGVTHRESIMNINVK RTQLLLEACVQATVPVFIYTSTP EVAGPNSYKEIIQNSHEEPLEN TWCSPS/PYKKA/LARSGI*ATL QLGGSQEECT
3873	34241	A	3913	3	621	AGQQTVEIDLRHRIQLPDLENQ RNFNELSRIVLEVRERVRQEQQ EGGHEAGEGRGRQGPRESQPSP AQPRAEAPSKGPDGTPGEDGGE PGDAVAAAEQPAQCQGQPFPV LPVGVSSRNEDYPRTCRMWNS TFQTYKKEVCLPRHSMHPGPW AICCECQTRFGGRLPVSRVEAA LPYWVPLSLRPRKQHPCWMHA AGTTAGGSVM
3874	34242	A	3914	1	430	RHRIQLPDLENQRNFNELSRIVL EVRERVRQEQQEGGHEAGEGR GRQGPRESQPSPAQPRAEAPSK GPDGTPGEDGGE PGN\AVAAAE QPAQCQGQPFPVLPVGVSSRNE DYPRTCRMW*GCGGYWGLKV GQHGLQRGPQPH
3875	34243	A	3915	2	1175	
3876	34244	A	3916	1	256	HLRIHTQESSYVCDECGKALTS KRN LHQHRIHTGEKPYECSKY \G*PFGLLPQLGHLEHVYSGEKP VLDICRFGLPEFFTPFYW

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3877	34245	A	3917	1	1396	MRPQLAGRDHHRGAATLLLER PGRLVTHFRQRRGAVRYGGGK STTQHLSQRRLSGPNDHTKGLV WLEHILQRLVSFVKLQATRTF TRTYITYAWFLPWGFSVLCGT PVDTCWALKHQRIHTGEKPFEC SECGKAFNGNSSLRHQRIHTGE RPYQCEECGRAFNDNANLIRHQ RIHSGDRPYYCTECGNSFTSSSE FVIHQRIHTGEKPYECNECGKA FVGNSPLL RHQKIHTGEKPYEC NECGKSFGR TSHLSQHQRHTG EKPYSCKVCGQAFNFHTKLTR HQRIHSEEKPF*L/CVDCGKA FS AQEQLKRHLRIHTQESSYVCDE CGKALTSKRNLHQHQRIHTGE KPYECSKYEKAFGTSSQLGHLE HVYSGEKPVLDICRFGLPEFFTP FYWKEEKKCGRKM RNEVVHK VSFFLVVPIALSSLLKKKWKML KKEKAQDPTEYGNLEDDNSQQ
3878	34246	A	3918	1	547	MDSQRPRER/QRERERQSERQR HTQRMHREAETEDERDWKGH DTKTRRQRQRKRAEEGQCREH DRERRRD\RTGERREKQRKSTQ QSRKPSEEPHREKTQIKRERGPE QGELERGQCTERNRKA/GTPEC *TDPHIWTPHPARSAPAHPPDH TAAKYRPPYRSHHSGITHQHPR AASTLKLWPKP
3879	34247	A	3919	1	399	
3880	34248	A	3920	3	872	KSKLKSEQDGISKTHKLLRRTC SSTVKTD DVCVTKSHRTFGRSL SSDPRAEQAMTAIKSHKLLNRP CPAAVKSEECLTLKSHRLLTRS WSGDPRCEHNTNLKPHKLLSRS YSSNLRMEELYGLKNHKLLSKS YSSAPKSSKT*/VFSKEP*RRRG RKALSLPQGLFGYP*HHLHPSSS QLAPNGAKCIPVRDRGFLVQTI EFAEQRIPVLNEYCEVCDEPHV FQNGPMLRRGRDVC EWAKKY ANSVVRKKFCRLSIARRSRYRA DMDLLRMSNFIITIIYKQKLN L
3881	34249	A	3921	3	218	CCRSHQGAGEGGHLSVQLLWQ YRWMWCSWGPVAFQFHTDLEL VAWRCVGLDPGCQQLDIGMQT LIGDHICVF
3882	34250	A	3922	1	1055	

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3883	34251	A	3923	3	962	RSMRQKVNKDIQDLISALPQAD LIDIYRTLHPKSTEYTFFSAPHR TYFKIDHIVGSKALLSKCKRTEI TTNCLSDHSAIKLELRIKKLTQN RTTTWKLNNLLLNDYWVHNE MKAEIKMLFETNENK/DETYQN LWDTFKA/PSIILNGQKLEAFPL KTGTREGYLLPLLFNIVLEVL AMAIRQEKE/IKGFQLGKEEVK LSLFADDMIVYLEDPIISAANLL RLISNFSKVSQYKINVQKSQTF YTNNRQTESQIMSELPFTIATKR IKYLGILTRDVKDLLKENYKP LFNEIKEDTNKWKNPICSWIGRI KIVKMAILPK
3884	34252	A	3924	1	1452	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSKEYTFFSALHHTYISKIDRT VGSKALLSKCKRTEIITNSLSDH RAIKLELRIKKLTQNRSTTWKL NNLLLNDYWVHNEMKAEIKM FFETNENKDTTYQNLWDTFKA VCRGKFIALNAHNRKQERSKID TLTSQKLEKQEQTQSKASRR QEITKIRAELEIETQKTLQKSN ESRSWFFERINKIDRPLARLIKK KREKNQIDVIKNDKGDITDPT EIQTIREYYKHLANKLENLE EMDKFLDITYTLPRLNQEEVESL NRPITGSEIVAIINSLPTKKSPGP DGFTVEFY/QEGN*AGEGNKGY SIRKRRSQIVPVWR*HDCISRKP HRLRPKSP*AGKQLQQSLRIQN QCTKITSIFIHQ*QANRKSNEH* TPIHNCFKENKIPRNPPYKGCEG PLQGELQTTAQ*NKRGYKQME EHSMLMGRKNQYRENGHTAQ

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3885	34253	A	3925	1	1251	MKAEINMFFETNENKYTVYQN LWDTFKA VCRGKFIALNAHKR KQERSAMNTLTSQLEKQE KTNSKANRKQETTKIRAEKEI ETQKTHQKINESRSLFFEKTNKI DRPLARLVKKKREKNQIDAIGN DTGDITDPTEIQTITIREYYKCL YANKLEYLEEMDKFLDTYTLQ RLNQEKVESLHRPITGSEIAHIN SLPT/KKSPGPDRFTAQFYQRYA DGMYLKIIRAIYDKPTANIMLN GQKLEAFPLKTGTRQGCPPLSRL LFNIVLEVLARAVRQEKEINGIH LGKQEVKLSLFADGMIVYLENP IVSAQNLLKLISKFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTITTKRIKYLGIQLARDVKD LFKENYKPLLNKIKEDPNKWK NIPCSWIGRINIMKMAILPK
3886	34254	A	3926	1	1203	
3887	34255	A	3927	1	1233	
3888	34256	A	3928	1	951	MKREKNQIDAIGNDKGDITDP TEIQTITIREYYKPLYTNKLENLE EMDKFPDITYTLPRLNQEEVESL NRPITGFEIEA/INSLPTK*SPGAE GFTAIFYQSVGSSGQGNQARE RNKGYSRKRGTQIVPVCRW DCIFRKLHGLSPKSP*ADKQLQ QSLRIQNQCAKITSIPHQ*QTYR EPNHE*TPIHNCYKENKIPRNTT YKGCERPFQGELQTTAQ*NKRR HKQMEEHSMLMDRKNQYREN GHQAQGH*IQCHPHQATNYFL HRIGKNYFKLHMEPNKSLHSQ DNPKQKEQSWRHHAT*LQTLQ GYSHQNSI
3889	34257	A	3929	1	814	

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3890	34258	A	3930	1	1545	HQLKVQFRIIISIRSSCDGSAWG VAPTFKTRGARSRSRAAIRLGA ADLDEVKSSLVNESENQSSSSD SEAERRPQPVRDTFQKPRDYFA EVRRPQDSAFFKGPPYPGPFL MIPDLSSPYLSNGPLSPGGARTN SSPAPKETWICARFGGVLSLFLE IGSRVLLLGRDVNRSSSLLPAQI PIACHFAVDGGNFIRGKGAYLL TFDLFGNWGLFFLIEIAVWELS AHSSGQSEDALELSRGTCSSSL QLCWTAKALVGKGLDGGPVC KNSGICSTRKTQEQMSFMEAL YQEGFLRETVVQAVRKVPQTP RKAVLEVLARAIHQEKEIKGIQL GKEEVKLSLFADDMITVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQAFFYTNNRQTESQIMSE LPFTITTKRIKYLGIQFTKDVKG LFKENYKPLLNEIKEDTNKWK NIPCSWIGRINIVKMAILPKVIY RFNAIPIKLPLTFFTELEKTTLNF IWNQKSRIIGKKILSKKNKAGGI
3891	34259	A	3931	693	1464	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATK/DQKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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3892	34260	A	3932	211	2519	ENRKSNCCLCLQMA*LYI*KIPSS QPKISLS**ANLAQSQDTKSMC KNHKHSYTLITDKQRAKS*VNS HSQLLQRE*NT*ESNLQGM*RT SSRRTTNHCSTK*KRTQTNGRT FHAHG*EESIS*KWPYCPSKC/K. RTEIITNSPSDHSTNKLELRIKKL TQNHTITWKLNNLLLNDSWVN NEIKAEIKKFFETNENKKTYYQ NLWDTAKAVLRGKFIALNAHI GNLERSKIYTLISQLKEPERQEQ TNPKASRRQEITKIRAELEIET QKTLQKINESRSWFFENIKIDRQ LARLIKKKREKNQIDTITNNKG DITDPIEIQTIREYYKLYAN KLENLEEMDKFLDYYTLPRLNQ EEVESLNTPTGSEIKAIINSLPT KRSPGPDRSTAE/FYHRYKEEL VLFLKLQFQSTEKEGGRDITTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIYHDQVGFIPGMQ GWFNICKSINVIFQYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPVLEIRGHK QMEEHSMMLMDRKNQYCENGH TAQGNL*IQCHPHQATNDFLHR IGKEEVKLSLFADDMIVYLENPI ISAQNLLKLISNFSKVSAKINV QKSQAFRYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYRPLLNEIKEDTNKWKNI PCSWVGRINIVIMAILSKVIYRF
3893	34261	A	3933	2	1304	
3894	34262	B	3934	141	2008	

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3895	34263	A	3935	1	1845	MVISVDAEKT FNKIQPF TLKT LNKLGIDGSYLKHIRAIYDQPTA NIILNGQKLEAFPLKTGRRQGC PLSPLLFNIVLEV LARAIRQEEEI KGIQLGKEEVKLSLFADEMIVY LENPIVSVQNLLKPIRNF SKVLG YKINVQKSQAFLY TINRHTESQI MSELPFTIATKRMKYLGIQVTR YVKDLFKENYKPLLNEVKEDT NKWKNI PCPWIGRIN\ILKMAIL P/KELEKTTLKFIWNQKRACIAK SILSKKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSDIIPHIYNHLIFDKPDKNK KWGMGSLFNKWCWENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGNTIQDID MGKDFMSKTPKAMATKAKIDK WDLTKLRSFCTAKETTIRVNRQ PKEWEKIFAIYSSDKGLISRIYK ELNFTRK\NNPIKKWAKDMNR YF*KEDIYAANRHMKKCSSLA IREMQIKTTMR/YHLTPVRMAII KKSGNNRTRENYFKIHMESKKS QNSQGNRKEKEQSWRHATRL QTIVQGYTVAKTACYWYKNRP TDQSNRTENQEIRLHTYNHLIF DKPDKSNGGETTPYSINGARITG
3896	34264	A	3936	1	700	
3897	34265	A	3937	1	3489	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIA YLGV LSGSASLKL AGVPI.RCCEGDKD AGHPLETQTALCERGRGARSLV GNTIMTSQVPVNETIIVLPSNVIN FSQAEKPEPTNQGGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANS LDFPPASLL CLICQEQGVNGESCSPVGM YH REIVPVYEVL SVITGLQIQVFSG KEADSVIKRS

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3898	34266	A	3938	120	1331	TSLGPIYCAVRHTSSCRKVGSSR CQHGCQLSVRLQLDQAHHKQL PWLAPKNAVVPKSLEDPQGRK EGVTALTPEAPRSGPPKRLQLFP PSLCPNCSKQGAYFSPFGVTAT LLATPFSSRSRVLVLQPGRMRYA DKWRVSKMKRCCIEQWNSSEK THSARASHSLQRQGGPRVGGG SLQAGCHVISAALSKEEALWV ASFCRQIVQSYLRPLLCSGADP GAFMDLRGEELRSLELSLSYTP PSNEFKISMKLEAQDPRNTTST CIATVVGLTGARLRLRLDGSND KNDFWRLVDSAEIQPIGNCEKN GGMLQPPLGDSFHC DVRVSILD LFCFLSEL PFTIDTKRIKYLGIQ LTKDVKDLFKENYKPLLNE/IK/ EDTNKWKNIPRSRIG*INIVKMA ILPKDFG
3899	34267	A	3939	1	1421	MDSMSGGGQYRKINGNPTSVK CPLLLLPAILTPEPVNRWRQSC KAFARHSPLAFRVTISTSTFFDG LLVTGLYTSTSVQASQSIGGSSA FGFVLEVLARAIRQEKEIKGIQL GKEEIKLSLFAGDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FK\ENYKPLLKEIKEDTNKWKN IPCSWVGRINIVKMAILPKNWK KLKFIWNQKRAHIAKSILSQKN KAGGITLPDFKLYYEATVTKTA WYWYRNRDIDQWNTTEPSEIM PHIYNYLIFDKPEKNKKWGKDS LFNKWCWESWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKTI KTLEENLGITIQDIGMGKDFMS KTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQTTKWEKI FATYSSDKGLISRICNELKQIYK KKTNNPIKK

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3900	34268	A	3940	3	1566	IQTTIGEYYKHLTYTNKLENLEE MDKFLDTYTLPRLNQEEGESLK RPMAGSEIEAIINSLPTKNSPGP DRFTAIFYQRYKEELLISNFSK VS/VIQNQWEKITSIPHQ*QTNR EPNHE*TPIHNCFKENKI/LGIQL TRDVKDLFKENYKPLLSEIKED TNKWKNIPCSWIGRTNIVKMAI LPKDKTSKYIDVDENEGSHCGK RKYKYGMEKALEILARAIQEK EIKGIQLGKEEVKLSLFADDMI VHLENPIISAQNLLKLISNFSKV SGHKINVQKSQTFLYTNNRQTE SQIMSGLPFKIATKRIKYI.LGIQL TRDVRDLFKENYKPLLNETKED TNKWKNILSSWIGRINIVKMA ILPKVIYRFNAILINLPMFTFFTEL EKTTLKFIWNQKRACIAKTILSQ RNKAGGITLRDFKPYKATETK TASEMKYYLENKIPFKVLHVM YNVPTHPPFIGDLHPNTKVVS PPNITSLIEPMNQGVISAFKDCY LRKTFVQAVATPEGETEMTVM QFWKDYNT

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3901	34269	A	3941	1	2580	MVKGSIQQEELTILNRYAPNTG APRSIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVSKDI QELNSVLHQADLDIYRTLHPK STECTFFSAPHRTYSKIDHIVGS KALLSKYKRTEIITNCCSDHSAT KLELRINKLTQNRSTTWKLNNL LLNDYWVHNEMKAQIKMFFET NENKDTAYQNLWDTFKAMCR GKFIALNAHKRKQERSKIDTLT SRLKELEKQEQLHSDKSRRQE INAEKAFDKIQPFMLKTLNTL DIDETYLKIIIRAIYDKPTVNIILN GQKLEVPPLKTGTRQGCRLSPL LFNIMLEVLARAIQEKEIKGIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQESQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLKEIKEDTNKWK NIP\CSWVGRINIVKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL K\FI*KQKRACIAKSILSQKNKA GGITLPDFKLYYYKAIVTKTA WYWYQNRDIDQWNRTEPSEIIP HIYNHLIFDKPDKNKKWGNDS LFNKRCWENWLAICRKLKLDP FLTPYTKINS\RWIKDLHVRPKT IKTLEENLGNTIQDIGMGKDFM TKTPKAMATKS\KIDKWDLIK KSFCTAKETTIRVNRQPTWK KIFTIYPSDKGLISRIYKEPKQIY

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3902	34270	A	3943	5	2130	QRLRRQHRLEQKTRSTTCHMR QSTTRSAERADTRIESMPT*TTP *HTDDVP/SHCTNSTHTATTSPS THNHQQTLTRVANVAQIRRTDI SSIAATEWISTINTHNYACRTRA VSQRRYVSDFEKRERPTSNTPE PRFRLVVSTPTLVGTTQGTYP PPARSRISIASHLLPPLSLLPSSL DL DGRSTLACSSSVSQFSGSRGS PSSYIVATTRVISDVYDMTTY YNSTITPIS/PSARS*CQRSVHLL LSSHRTYRHPLVSRHTSQEHSL GGPLHRH*YNPVGSRAAAWAS KSALV/SVSLEALVVSALI*LVA TRQRLVGICRTTPIRARSSVVR* VTRYQPNQRAPLIHATYHLLDR GQHPQSMQTISHWTPPCWCL VCGKKSSLPCCSTSSMSTRNQ YDTLSLTTSWVL*SSIFWLAFIL LPRTSLPWPTVS*LAANA\SSGS TPVNSSFRT\SVRRSKLVVPANE IETPSFVVVTKFSRSASSYDCSIE YASTYAINITIVNSYVFA/PTHTT REHTISYALTSPGQPQNKTRIBE LQWAF*AVRPSTQ/PSTVIYHAP TSQAIASCALHSLGCLLSAT APLPPTWTPPPPPQLRTT*STG SLPHPPSC*TRP*PLAPRN*PFTG MSSQHCIPT*PQLASHSIALRG/S RARPTTSQTSIAS/SHSHS*LSHV Q*RPLSDQRSPLDHHAHSSILYA RASRISCLRVCAV
3903	34271	A	3944	254	884	MTPNYTSRLFLHMGVLFYPFYR RLT*HIRTHINLKGWK/NRHF QMDTKNAEKALDKIQHRFMIK TLISKISIQGTHFAKIIKAIYGKSTT NTILNGEKLKAFPLRTGIKQGCP LLPLPFNIVLELLARAIRQEKEIK GIQIGKEEVKLTTFADDMIIYLE NSKDSSRKLPELIKEFSKVSRYK VNLHKSIALLYTNSDQAENQIK NSTSFTI
3904	34272	B	3945	52	843	

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3905	34273	A	3946	1	831	MEMLYCLIAEAGHISSRMATNT ANSAGLKPTCVCVLPLPPGRS APHRSCSQAGRELPGQGPRYYR HLPQLSILHSIGEGQGCGFWSER SFKGYPERPAGAAGVCRLQGC GRRGRGAPFRTTDFSSRPRGAA ERADQGPRAGSPWPRTTSGAQ RGRAQGGHTARRRGNSNPGP SRARQASRRRRPATSGPPRGSP RPDRPRRRSPFYRSSSRETSRPP EGPRRPRAPALSAPAGQPARP RPREPVPCGAVFTARDRLRPPA ATSHAPFSAANPRR*HRPGGPG ARRLGDAQLSRRST/SGAPRCS QTRSR*PTCVCVLPLPPGRSAP HRSCSQAGRELPGQGPRYYRHL PQLSILHSIGEGQGCGFWSESRF KGYPERPAGAAGVCRLQGCGR RGRGAPFRTTDFSSRPRGAAER ADQGPRAGSPWPRTTSGAQRG RAQGGHTARRRGNSNPGPSR ARQASRRRRPATSGPPRGSPRP DRPRRRSPFYRSSSRETSRPP PRRPRAPALSAPAGQPARPRP REPVPCGAVFTARDRLRPPAAT SHAPFSAANPRR
3906	34274	B	3947	250	281	
3907	34275	A	3948	3	639	DHTCRLRQRLRLRVLVGPVPG AGPAG*KGCYGGRSANHHGAP ASCHLARSSCGPRLPGRYSAQQ PRARCAASGLCGWTAPAADPV PSEVLASQEVQLLCAGE*SGSC GPTHADLQSPGGTGEDGAAR AKRDLPGSVGERAAAPASGRL RACPGRPAGAPGRARPPGGTA ALAQPPRPQGAAARPPSGIGWPA GNNGSAQSKGRALMEQAAG

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3908	34276	A	3949	161	2377	SLFHGKVCHFLHEPLPLVYLSL CTGYQLFKPSLISWLEEEELST LPRVLQEWKMCLKTKGPALW QDNFCLKTLNGIQLARNQNGEE LYDCKQCEDVFCKHPCLKTNM STQNRGNTSECIQYAKDLLSLY NKTSTIRKVSFVSKHGKSFRLAF *MFRSRESVHKINPLK/CTDYGK AFIYQSYLEAHRKTQSGEKLENE WKQCGEAFTHSTSHAVNVETH IKNPYECKECKGDFRYPTHLN NHMQTHIGIKPYCKKHCGKTFT VPSGFLEHVRTHTGEPYGCKE CGKAFGTSAGLIEHIRCHAREK TFKCDHCGKAFISYPSLFGHLR VHNGEKPYEHKEYGKAFGTSS GVIEDRRSNTGQKRFDQDQCG KVFVSFSSSLFAHLRTHTGEPF KCYKCGKPFTSSACLRHMRTH TEERLYQCKKCGKAFTKCSYLT KHLRTHAGEKPYECMKCGKAF TERSYLTKHLRRHSGEKPYECK KCGKAFTERSDLTKHLRRHTG DKPYEYKDCGKAFVVSSSLVD HLRTHTGYPYKCNACEKAYS RSCVLTQHLKTHAAEKTSECN ACGNSFRNSMCFHDLRLKTLTKI KPYKCKDCGKAFTCHSDLTNH VRIHTGEKPYKCKECKGAFRTS SGRIQHLRTHMGEKPFECQDQCG KAFAFSQLVLHI*KHTREKPCG CEECGKTFAVSSSLTEHVKIHR
3909	34277	A	3950	6	455	GLLHERQAEARCSICLDYLRHP MTTDCRHYI*SARIHQCW*ELQ DISPCPVCLQHCPDKNLKRNFQ LCHMTDIAKQLLTARRKRKL QGEEPVCRKSDVALFCEKDPEL LCHQYRVSLDH*DH/SPMPIEQ AAAKHRKQFESYIEPLEKQV

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3910	34278	A	3951	2	1009	WNGHRMN*MQSSNGLEWN/QS SNGKEWNHRIESNGIIA\WN/Q WYQHQTENGIFEWNRRESSN GPEWNHVM EWNG/DNPWTRM QSSSNGIEWNHRMDSNGIIFQW NGNGNHRIGIEWNYDQ\SNEWI QWNQHQTENGIIKWNRRESS NGPEWNHLM EWN/ENNPWTR MQSSSNGIEWNRMESSNGLEW NNH*TESNGSVESSDGNER/QS SSNGIAWNHHKMESNGINIKW NQMESWN/WN*MNRMELSSNG IEWNQHQTEKNGIIEWNRRESS NGPEWNHLM EWN/ENNPWTR MQSSS/NWNRMESSNGLEWNN/ QLNGIEWNHHRMEMNGIIIEW NRIELWN
3911	34279	A	3952	1	1494	MASLLGAPRLAGWASGAGALS RGWAIRPADTGGNLGPVPRVPL PPDPVLTARWAPGVNSGSQFSC HCQAPIEMGHKGSSPGLGDAE VRAITVQCIRPIDGPPQPPGGGS AGRRLTIPASTQEW AQLPVGRV LANVLTEGGDTGNQPIQRSLC RPQPCSHAETWGEVEAQVPAQ SNREQPAAAPGCGPGRGETGA RPETTFSPRRAPPNPYDEEGVR WSLEFMLCGTDGPVQPVQHQE GPAARLQLIRGGS LILESEGTLR G/SPVLQTDQPASHLLHTQGFW A/AALSAVCL/HQNIHSGSALL APATRAAWEQIRSEG GTAQL LRRLEGYFSNVARNVQW TYLQ PFVIVTTNMILAVDIFDKFNFTG ARVPWFDAIHEAFPRELESSISF PANFFKPPEEKEGPLVRPASRK TTPQTTRPGPGTEREAPISR*KR HPDDTG*FTFTLGIVYCTPGQLP PEPYDPNRRSLWLPHPWIINTS MVSALVYSEGAPLPSPL
3912	34280	A	3953	1	681	MGQLLDKNTPSHGARTREECG RERLCVSPSQTGDTPTSAYLC VGGPAWSPLSES RPAGSSGCPW IKPPDP RYSPIGLCSLLTTEMMS RQPRTDLRGQTNPAAPSA PVPL SCSQNL PVWPSLMAGTTWHSP LASPSCFWHSPGHN*H*CCVSKD *KSLFWEPTA/YSPLL PSTSP/SS KSMQPPKPRSNADSSVQASLIP RAMSSPTVSPWIMGNQSQGFD HIAVSMWDD

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3913	34281	A	3954	136	420	RESRNLSRGEESDPAEPSVRNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPPSPAPPPETHTGSPRPPSGRSR IRAYLH
3914	34282	A	3955	1	1782	
3915	34283	B	3956	1	3070	
3916	34284	A	3957	104	279	STTHPSVHE/QEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEERKKEC SKAQCKHFPLSEVL
3917	34285	A	3958	1	252	MTVCIHASEDLPGRDVEVED SDIHDRDPGLGDKSETPSE/EKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE NFLQHYLHL
3918	34286	A	3959	2	368	
3919	34287	A	3960	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHRVGI
3920	34288	A	3961	1	577	MQIPSLHKLKKEEEEEEEEEEEEE ERRRRIGRGREKKEEEEEEEEE EEEEEEEEVEKKKKEEKKKKEE EEEERRRKKKKERKEEEEE/G KEEEEGEEGEEEEEEEEERRK EEEEEEEEGEEEEEEEEESCLMGP MCVHIHP\DKDLYSLGPPAQR TGSHAELPT*KARRSSSWTAAS RGCAARDPPRRCSPA
3921	34289	A	3962	327	559	PKGRTSPSCIHRYPCQTPRPHE P*GCHCPEEK/PRPRVWGSPSRC MPLGSVQEKRPCAPGGVQGSF RVSPMLMLTRL
3922	34290	A	3963	1	577	MQIPSLHKLKKEEEEEEEEEEEEE ERRRRIGRGREKKEEEEEEEEE EEEEEEEEVEKKKKEEKKKKEE EEEERRRKKKKERKEEEEE/G KEEEEGEEGEEEEEEEEERRK EEEEEEEEGEEEEEEEEESCLMGP MCVHIHP\DKDLYSLGPPAQR TGSHAELPT*KARRSSSWTAAS RGCAARDPPRRCSPA
3923	34291	A	3964	157	272	WCNGSPLYSGW*LVGMESLGR MHKDLWTRQPNQDQDLQ
3924	34292	B	3965	1	3723	
3925	34293	B	3966	1	573	

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3926	34294	A	3967	3	424	AGGQALQGPQGGRGSQGVVG/ PGTGSSGAQHLGKHYPVLSGGS ERSWGRSHTPAGAGC*VRGRR AGGRP GTGHSRPPGGSCLS PAP PNSARWLGLGAPWQAGAGLR DPGDWRRGQGGPGWAWCPGQ PPAQPHTCPPNSTARY
3927	34295	A	3968	3	1238	RGAERRAWSRGPACTRRGPAD WAAAGAGRPCPQRRGVCCTAA VPGAARLSCPTGPGPDGRRS LTGQGS*GLGAFFGGWTGALP SWHS*SQGWQTDVPR*VRGTE RDICTGL*QPCPPGGLQTGSGG LEHSLPWP GIGIQAP*GPNHPCR LPRS*ALSAGGSSGQALQGP QGRGSQGVVG/PGTGSSGAQH HCCPPYTPPG*HPIPSLLALGPQ SLQPEWAHSGTASGEQHSAGE HGMGTGTH*LPGLCSRCVLGK HYPVLSGGSEERSWGRSHTPAG AGC*VRGRRAGGRP GTGHSRPP GGSCLS PAPNSARWLGLGAP WQAGAGLRDPGDWRRGQGGP GWAWCPGQPPAQPHTCPPAGS LPGAAPGVLCAA*GPAAGV*A GPGPGPGSRR*TRGPSGAPRPA
3928	34296	A	3969	3	415	ETGRHRSQQSVSSPPVQPRGKR AMYHSAELVSRGFPRPPVQAP AEPAGAAEGVHSQPASRQEA/G S/TEVRGQAHFVSPNAAGAG DG/PDPQSL LAPTNRCP PGGISP ARSEPVPPAPGRAAP*CFPDLP LAPPLC
3929	34297	B	3970	1	657	
3930	34298	A	3971	125	524	EAEALENQSQPCDTG/PQSAFSP PGSTQHPRSQLSQCKQRYQDLQ EKLLLSEATVFAQANELEK*RV ILS\GEPLLKQDSKQVQVDLQD LGYETCGQSKNEAEQEETTSPE HEEHSSRKEMVLVEGLCSEQG
3931	34299	A	3972	1	648	MGQVWGLVHFTLEVFTGDEE EQEYSEVTEDVTEHVYLPKA KVAKEEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLKNVTVSSQMIPTDGDPLT RACLTPAQFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\IT*CGEQYPSF

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3932	34300	A	3973	350	1078	GSNRRSNRAEQLRGVCIRAW KNTSGEEQYPSFSIVKQGP TDFIAWLQESLKKVIADSA IVLWLLAFDNANPDCQAAL RGKAHLVDYIKACDGIRGP RLSWLSLQGRPAGAACTSS DWKAQLAPGPHAGPLRCPA ARQRLPAVLSAGAAFRDC CVQALLGGSAGPGDRLPGH ALVALSLPFVKEATMNRWS HRSAFFLFSANAHGAEGVLS VASR
3933	34301	A	3974	2	630	WDNCGLWFIPSWNLFTLM KESLMK*QKK*QSRFVCQL /PAKEGEVYPYPSPAPPYF WPDPPDLSFLEDAGQKVI VQAAPQAIALSSIQAGIQQA EGDLEAWQFPIRHPPDQQG ATFEPFPFKLLKESKQAINQ QGSPFVMELLKNVAVSSQMI DWDALAQACLTLTQFLQFK WADEVSIQAACNA
3934	34302	A	3975	264	634	WSSRCQHSSRPQASESWF PSFWPRIQGDEKTGAGGHP C*PGMTGQGFKCQHTCLMW GSHWAQEAPENAPGTSCPG SWVLRSSLQRQKSAWSPG/AS PAPKMPFLTPSSGFS
3935	34303	A	3976	3	410	KKKVWREEKERLLKMTLE KEYLRDYIPLNSILSWKEEM QGPK*VEENTQETSQVKKSL VSLYRGDI/L*VDAIVNAAN LGGGGVDGCIHRAAGPCLLA CRNLNGCDTGHAKITCGYDL AKCEYN
3936	34304	A	3977	74	432	MLHNLRPRTLTRTRCPST TT*ATPPTTHGSAGPRAAHL RTGTTRWRAPRRARSCTRSP RARAASTPPLAPARELRSPAS SCEQSAAPPSGRNGGNFPES IFVKTINSN

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3937	34305	A	3978	2	894	WGGYGMRTGPRTLTTTRTRCPS TPS*TTT*ATPPTTTHGSAGPRA RTCAAQRTSGSHPSQRRRTSSAA PGV*RANVFPWAH*MKRV*TT LENLTA/PEMAMPPAPHVIFAT DDWAAMVHPSARVPGLDGTG ALLVPTGVCAPGPCKCPLTSSS VTHTRLKTTLSPPSARQTGRC RSPSDLRCSYPPDEQPVCVPKC GSPWVSVLVAWIQSES AVLDPR HPQHPLYLPVDMQNLLTNLGE PPQARALAAKLLGRPSSSQSGS RVPVWAQAGNATYITVHTLC SHNTHMSPVRVKRFTHLG
3938	34306	A	3979	157	570	
3939	34307	A	3980	1	936	
3940	34308	B	3981	257	3934	
3941	34309	A	3982	210	4286	MPLKTRTALSDDPDSSTSTLGN MLELPGTSSSSTSQELPFCQPKK KSTPLKYEVGDLIWAQFKRRP WWPCRICSDPLINTHSMKMKVSN RRPYRQYYVEAFGDPSERAWV AGKAIVMFEGRHQFEELPVLRR RGKQKEKGYRHKVPQKILSKW EASVGLAEQYDVPKGSKNRKC PGSI\KLDSEEDMPFEDCTNDPE SEHDLLNLNGCLKSLAFDSEHSA DEKEKPCA\KSRARKSSDNPKR T*L*KRATYNFEAH
3942	34310	C	3983	163	309	
3943	34311	A	3984	72	424	RNCGTARSQHEPLGSWLQDTP QPP*TLELAGNLP GD/F*PGPGK EQGMFVCHPIRQPLPRPLPGSSH QSMPTAQPLSSSSALLPALPAG FPVTQGQWTKLQVQAPAPFHL PPQVEAV*AFYQKQMLVPCSL* SMPTAQPLSSSSALLPALPAGF PVTQGQWTKLQVQAPAPFHL PQVEAV
3944	34312	A	3985	1	347	KWQRFVLTGIDTYSRYEFAYPA CHASTKTTIHGLMEFLIHGIP HSIASDQGTHLMAKEVRQWAH AHGIHWSYHVPHPPEVAGLIER WNE\GLLKSQQLQHQLVNRLRRE LQCWLG
3945	34313	A	3986	1	1716	

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3946	34314	A	3987	1	737	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSVADRDTVWSL WQVPIGESQLGFWSKALPSSAD NYSPIFERQLLACYWALVET EY LTMGHEVTMLPELPIMTWVLS DPSSYKPAPMASWGVYPYQQLT EEETRAWFTDGSARYTETTR KWTAVAIQPLSRTSLKDSNEGK SSHQQA KNGITVLAGVIDPDYQ DEISL/LTPQWRCHPGSSVWRAS SLGISHPP
3947	34315	A	3988	2	384	CGRSGYWHSSVATKITRLRML RPREGRKLPPGDIMIPLN*KLRL PPGS/LLLLSHQAKKGVTMLAG VTDPDYQDEISLLHNGGTGKS PHISDTFYGSKVASCQNTGPEK QDETQAQETAVYKSQIFGS
3948	34316	A	3989	3	1273	
3949	34317	A	3990	3	341	GLGRRQPAGSWPERRPGPSA/R RSTAPRRCGQAES*TERGSQPH QVQQGGRWGVCMKIPSHSGKS PDVSEVSKSRNSIISTAVTHAVV APEGLKRNGGGSHLRSSRGHR AVIF
3950	34318	A	3991	44	243	
3951	34319	A	3992	40	558	LGSIQVMQAVRNAGSRFLRSW TWPQTAG*QMTAPSSPPPPGL CSYSCPLSH/SLPVTVRPWSPS FSSQQGRGQNA/APGPSAQALD SSKTLRPSRKLNRTRLPATPSSG EPHLDQPSGDPQPLTLARHPPE EPVNFQLCHLLSVGPYANKSEP QPSHLKMRIMLREVVRIT
3952	34320	A	3993	335	581	RRHLFLQWGQRAWRLQVAAA GTTRPTSAMGIRCSEGAARAT AARA*TAGPEPLE/PAANPPPL TASALRAPP SFVLPQCTR

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3953	34321	A	3994	216	1159	SWHGPPGANTVAAAAGPEEK AALKLRPTHGWPVRATDVHDV ILKASGESEWRGGSRASHQMSP VAMATALGEGVPVRGPAAGSL RLLPGSSAPLGRDAISSCNGVN GLETTGGRCRHNAPNKRHGD LLEGAAAR/AQAARA*TAGPEP LE/PAANPPPPLTASALRAPP SFVLPQCTAAPRDPSAAGAAN*G KAQSRNC*NEPFAYGGGTHGT GAGAAVTVAADGN*LGSIQVM QAVRNAGSRFLRSWTWPQTAG PWPSPSF/VFPAGSWPERRPGPS AQALDSSKTLRPSRKLNRTRLP ATPSSAFTLPFQERRAL
3954	34322	A	3995	1	738	MTKRGHGTAWAVASKSASPKP WQLPHSVEPVGTEKSRIE VWEP LPRFQRMYGNTWMSG SLLQG NQNLHAERYCNST LERNDTPIE SLKPKRESE DGLGEHNGSTMEE VGAETRVQRHWVRVSMTE LAL ASDAHMWGSGNP GQRTVGVMV GECGTML GDTQVLLSNPCGDR ARRAYSTAPDYAVCGNGG KVK LNEQRFSGSTNKQ GKAAYWME ALRPEPLC WQSNYPEAAAVGK PKAAYTKKLHGEDS* AIPVVTE LGERIAQL LIMLYV/KWGKSEIK RT/G/GFGSTNKQ GKAAYWME ALRPEPLC WQSNYPEAAAVGK PKAAYTKKLHGEDS
3955	34323	C	3996	87	329	
3956	34324	A	3997	3	122	
3957	34325	A	3998	1	156	
3958	34326	A	3999	1	353	
3959	34327	A	4000	1	201	
3960	34328	A	4001	56	207	EEKKEKEKEKEKEK/EEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE
3961	34329	A	4002	1	174	MNRC*RHIYSSNEVH*KEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEIPLSSL
3962	34330	A	4003	1	278	MTSYKFTEPKNGIWQLHEAAQ LDTTYNKLNKKEEEEEVEEEEE EEEEEEVEEGEGEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEGVIL
3963	34331	A	4004	144	429	DLPREYALLPAGPRRRCRH TH RYEPNPEFGAKHSC PAA*HRAA PATSDTQE* HRSNAFGEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEETLFSNM

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3964	34332	A	4005	3	122	TEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEEEEEE
3965	34333	B	4006	1	300	
3966	34334	A	4007	1	1226	MPSSKGVHVVHSPPRYLAAKDF KMINKELTAATFMEVIAEDNRF IYDGDIDSNFEPELVFLEFFALLS FAFICVTQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPPSLSDNLDFS KQDGNTTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNEDAT QYEESILTKLIVESYECEKVRGL YEGEGFAAFQGGCTYRVSCPFE NLQEGERGRLCEECPDEPRRVH VAGRSMYEGEVVNGMRNGFG MFKCSTQPVS YIGHWCNGKRH GKVGEVATWRAEKKKKEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEKIRP
3967	34335	A	4008	453	705	LLSIVQAEAVSENSHPILPRVSR SGWGQKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEGRRRRRSSP SCYSITPELSCKLGHR
3968	34336	A	4009	93	705	ESSTQTCSGFWTGCTALHRWR GMPERCPPESTRDS*TRFPQSSLP GHKT/SEKEEENNRKEEEEEKE KEK/EEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEQEEEDDEE EEEEKSCSVNVSLIELPWDPA YSRLAPLSSQPGPAVKVPTEHLI AKLEDVCVQGFTYLTVEKRWAR AVTGAQELGVDYPRNEKCKPH NNGYDND
3969	34337	A	4010	1	3189	
3970	34338	A	4011	1	5127	
3971	34339	A	4012	209	3816	QGRPFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPKKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTEIQITIREYYKHLYANK LENLEMDKFLDYTLPRLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFATAEFYQRYKEELVP FLLKLFQPIEKEGILPNFYEASII LIPKPGRDTTKGNFRPISLMNI DAKIL

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3972	34340	B	4013	1	3570	
3973	34341	A	4014	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHKKLIH HDQVGFIQGMQGWFNIRKSINV IQHINRTKDKNHMISIDAFAKAF DKIQQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYQYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWKGDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKSGNNRRIQ/GGIWCD RIL*R*TTCRVAKEIQSL*RR/W KRLQRTLSIPVLDAV*PPMF*AS
3974	34342	A	4015	1	5073	
3975	34343	A	4016	1	3297	
3976	34344	A	4017	1	3514	MELKTKARELREECRLSRSCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTQPQRYSLRRATPRHIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW

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3977	34345	A	4018	1	2666	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPTIEQT TIRESYKHLIYANKLENLEEMDT FLDTYTLPRLNQEEVESLNRPI GSEIVAIINSLPTKKSPGPDGFTA EFY/PESYL*QTHRQYHTEWAK TASIPFENWHKTGMPSLTTPIQH SVGSSGQGNQPGEGNKGYRSIRK RGSQIVPVCRRHDCLSRKPHRL SPKSP*ADKQLQQLRIQNQCT KITSILIHQQQTNRPNHE*TPIH NCFKENKIPRNPTYKGCEGPLQ GELQTTAQQNKRGHKQMEEHS MLMGRKNQYRENGHTAQGNL QIQCHPHQATNDFLHRIGKNYF KVHMEPKKSPHRQVNPKEQ SWRHHTT*LQTLQGYSNQNSM VLVPKQRYRSMEQNRALRNNA AYLQLSDL*QT*EKQAMGKGF I**MVLGKLASHM*KAETGSLP
3978	34346	A	4019	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YTFF/LAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ LEKEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
3979	34347	B	4020	1	3765	
3980	34348	A	4021	1	4791	
3981	34349	A	4022	1	3297	

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3982	34350	A	4023	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLELEKQEQRHSPSRRQE ITKMRAELKEIETQ
3983	34351	A	4024	281	3030	KPRLNENYMKNAEASRADAINW KKGY/LVMEDKMNMKREGKF REKRIKRNKQSLQEIWDYVKRP NLRISVPESDRENGTKLENTL QDIIQENFPNLAQANIQIEIQ RTPQRYSSRRATPRHIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTAEEY QRYKEELVPFLKLFQSIEKEGI LPNSFYEASII
3984	34352	A	4025	1	3290	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLN NLLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQE TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
3985	34353	A	4026	1	3573	
3986	34354	B	4027	1	4251	
3987	34355	B	4028	1	3065	
3988	34356	A	4029	965	4089	TWKGTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTTFF/LAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLTQSRSTT WKLNLLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLELEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID

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3989	34357	A	4030	523	3981	
3990	34358	A	4031	1	3429	
3991	34359	A	4032	1	3156	
3992	34360	A	4033	2	4943	
3993	34361	A	4034	1	6747	
3994	34362	A	4035	1	3928	MAAWNLLLSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGGKQN RKTGNSKMQSASPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTGKKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRLSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWVYVCRPNLR LIGVPESDVENGTKLENT
3995	34363	A	4036	1	3638	
3996	34364	A	4037	3	3585	SNSHITILTLNVNGLNAPIKRHR LANWIKSQDPSVCCIQETHLTC RDTHRIKIGWREIYQANGKQK KAGVAILVSDKTDFKPTKIKRD KEGHYMMVKGSIQQEELTTLNI YAPNTGAPRFIKQVLRDLQORDL DSHTLIMGDFNTPLSTLDRSTR QKVNKDIQDLNSALHQVDLIDI YRTLHPKSTEYTFFSALHHIYSK IDHIVGSKALLSKYKTTEITNC LSDHSAIKLELRIKKLTQNRSTT WKLNNLLLN
3997	34365	B	4038	877	8907	
3998	34366	A	4039	1	450	QGSPSGSRE*NSQSSAGPQCALP PAMA*VPLSWRSMGKWWKRT SCTSDST*PPSERRHWSRKSPS AMPASFRCSASAREMLP*KKG RCAAGSGIAPGPETWGRTGGC PGKQATCGVSGPNANGEPVL/K YPSSSSEAHGGPGRNGRSD
3999	34367	A	4040	2	522	
4000	34368	B	4041	102	186	
4001	34369	A	4042	2	5417	

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4002	34370	A	4043	45	1585	KQPSGLLKFGNLILKCHPPSLTH MLSQPCA\EAPTDPNWEA\LY IHPSSGIMSATVSFWSIGTA\YLE AQGIWEP\FRRRLS\FEASNPPFD VGRPFDLRRIVGISSEGNLNTLS CDPGHSRGFCGAGGSSSRPSAG SHKQ*GPSGHPHSSHSNRNSAD VDDVRAYN SGRTSSMTSAQAA SSQPANKTRPLVLDSNTGAQGH SAGRKSKGAKQSQHGSQHHAH SPLEQHPQPPLPPPVPQPQEPQP ERLSPAPLAHPSHPERASSARHS SESDITSLEAMDKDFDHHDSP ALEVFTEQPPSPLPKSKGSTEGG PASTFTQAVDGGIQFFTD CWTE GPSSLLAVAREVQLALCIHELL IHGFSQLQVSGGPGAMPDPAAH LPFFYGSISRAEAEIHLKLAGM ADGLFLVRQCLRSLGGYRQLN GTYAIAGGKAHCGPAELCEFYS RDPDGLPCNLRKPCIPPSGLEPQ PGSSTACETPWARPRSRPSSARP RRWRSSLLRRTTSGCPGTAA
4003	34371	A	4044	1	1773	
4004	34372	A	4045	1	663	MALWTLRPTLLVTCMLICAPG VMGAVVAPLTILGGPLLIRAAW YTAGIVGGLSTVAMCAPSEKFL NMGAPLGVGLGLVFVSSLVDQ MGRWVAVAGGA VGLGALCYY GLGLSNEIGAIEKA VEYWFNSF VCHSNQQNACSHELHDERLLG DMGLPILHAMLLRRLPSVDSQN ALSSIMLLHTALP*QSAERLFS* TS**EALG*YGFAYPACNASAK TTIRGLTECLIQHHTVPHSIASD QGTHFTAKEVQQWAHAHGIH WPYHVP HHPEAAGL
4005	34373	B	4046	147	330	

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4006	34374	A	4047	485	1568	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQPTTW*Q VDCIGPLPSWEGQRFVLTGIDT YFRYGFAYPACNASVKTTIHGL TECLVHHHGVPHGIVASVQGTH FMA*EVQQWAHAHGIHWSYH VPHHLEAAGLIEQWNGLLMSQ LQHQLGDNTLQGWGKVLQKG VYALNQCSIYGTVSPIARIHGSR NQGVEVAPLKITPSDPLAKCLL PPFKALHSACLEVLVPEGGTL PGDTTTIPLNWKRLRPPRHFG LLPLSQKAKKGATVLAGVIDPD YQDEISLLLHIGGKEEYAWNTG DPLGRLLVFPCHVIKVNGLKQQ PNPGKTANDPDPSGMKV*VTPP GKKNRPRAEVLAEKG
4007	34375	B	4048	182	662	
4008	34376	A	4049	1	2250	
4009	34377	A	4050	1	1326	
4010	34378	A	4051	1	1614	
4011	34379	A	4052	1	2586	
4012	34380	B	4053	1	1954	
4013	34381	A	4054	1	705	
4014	34382	A	4055	1	1833	
4015	34383	A	4056	1585	4128	
4016	34384	A	4057	1	1425	MARG/NAITLPV/CGRAVKFT/L EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLTGGQT PAFGRRVSGVIEIADGSRRRKA AALTESDYRVLVGELDDEQMA ALSRLGNDYRPTSAYERGQRY ASRLQNEFAGNISALADAENIS HKAHKYFVFEANTGTETGYQG EESLFNKAYYGGGTNFFRKESQ KLQQSAKKRDAELANGALGIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWDFAFGT TIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKKRTTL APNTQTASPRALADSLMQLAR QVSRLESGQQSSKQKKAIQTAI RKNKEANAVLARLNSELQQQL KGFADFREPPKQDFRLLGQTS VDRLLQLSQQAITELCGAKRV GYFGPTQFYIALKLIAAAQGLP VRIESIKCGNSYDHDYEFELGTL VLPRSLEGFALSNCGEHYWL

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4017	34385	A	4058	1461	2496	NKRNHQSVCHAFIRIPAAAPMV DSLIARVGV MARGNAITLPVCG RDVKFTLEVLRGDSVEKTSRV WSGNERDQELLTEDALDDLIPS FLLTGQQTAFGRRVSGVIEIAD GSRRRKAALTESEGTPAFGR VSGVIEFADGSRRRKAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAENISRKIITRCI NTAKLPKSVVALF SHPGELSAR SGDALQKAFTDKEELLKQAS NLHEQKKAGVIFEAEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLD RSRVPTE CIEKIEAILKELEKPAP
4018	34386	A	4059	340	2067	
4019	34387	A	4060	1	1959	
4020	34388	A	4061	1	2319	
4021	34389	A	4062	1	1587	
4022	34390	A	4063	964	1757	GYSKSPDVITLLEQGKEPCVV ARDVTRRQCPAAPMVDSLIAR VGV MARGNAITLPVCGRDVKF TLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADANN ISRKNITRCINTAKLPKSVVALF SHPG/ELSARAASQRQCGYHK LHDKQRLLRG*KGNICAKLLNE
4023	34391	A	4064	1	1554	
4024	34392	B	4065	1	1599	
4025	34393	A	4066	1	682	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGV MARG NAITLPVCGRDVKFTLEVLRGD SVEKTSRVWSGNERDQELLTE DALDDLIPSFLLTGQQTAFGR RVSGVIEIADGSRRRKAALTE SDYRVLVGELDDEQMAALSRL GGATQAFKENNQK\HTKKRT ASLILHAMICCRSLNSSKTKNT KCLNSINQRLKILSLQKDL MCG TAGRCKTLTEQ
4026	34394	A	4067	1	2448	
4027	34395	A	4068	1	2541	
4028	34396	A	4069	1	828	
4029	34397	A	4070	1	1899	
4030	34398	B	4071	1	1686	
4031	34399	A	4072	1	1437	

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4032	34400	A	4073	1	3417	
4033	34401	A	4074	1	3826	
4034	34402	A	4075	812	2578	FIRDFADFGTTIKQDFRLLGQTS VDRLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGHSNGN GQVSPIFHQTSSSTIRSCSCHLLT LNFLTQLNTSDIAVFHSTPKLL LVTSTITHMGLNTSQAQSVPI NSVAGSLAALQPVFQSQQLHSP HQQPLMQQSPGSHMAQQPFMA AVTQLQNSHKFSHRSHGPGQS NDACSEPTNKKMRRNRFKWGP ASQQILYQAYDRQKNPSKEERE ALVEECNRVWQARRLGAFGKE DVHVSFAARRGAKFRHQTLLG RRSSIPAAPMVDSLIRVGVMA RGNAILPVCGRDVKFTLEVLR GDSVEKTSRVWSGNERDQELL TEDALDDLIPSFLTGGQTPAFG RRVSGVIEIADGSRRRKAAALT ESDYRVLVGELDDEQMAALSR LGNDYRPTSAYERGQRYASRL QNEFAGNISALADAENISRKIIT RCINTAKLPKSVVALFSHPGELS ARSGDALQKAFTDKEELLKQQ ACKL\HEQKKAGVGDNSIDSW KNAGRVPKDSDFDANDPILK DQTQEWSGSATFTSDGKIRFIL

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4035	34403	A	4076	1474	3367	REEGANSECLGRHGFKKMLYV KRDEVGKGQIRLETVFEQAIDQ RFSTDTSLSTPAAPMVDSLIARV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLLTGH KTPAFGQRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIIITRCINTAKLPKSVVALFS HPGE\LSARSGKCMVPTESAPH VTVLGCQCGLGLENGLKEGY LGRSTLDMEA WQPLQEFYLN LITGQMFEIAVTQNNSKINSSSP TTEQSWMENDFDELTEVGFR SVITNFSELKEHVLTHRKEAKN LEKSDGENGTKLENTFQDIIQE NFPNLARQVNIQIEIQKTPQRY SSRATPGHIIVRFTKVEMKEK VLRAAREKASLAPENLDNSKIR PVVILFHYGESWNLLRADQRLLI FAKSWPRASRYQQGHQDLFILR SDLP SQVFIRDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVQLSLM GHKSSISTEVYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
4036	34404	A	4077	794	4235	RVSRGRKWFFIALKRMPAMKK AMNLFLGLSNVRTVHPEGFTV YISTHISFPSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNTLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQVCVNEINS RTPMRLSYIEKKKGRQTTHIDL ALKGLRVLLVEGNDPQGTASM YHGWPDLHIIHAEDTLLPFYLG EKDDVTYAIKPTCWPGLDIIPSC LALHRIETELMGKFDEGKLPTD PHLMLRLAIETVA
4037	34405	A	4078	1	2574	
4038	34406	A	4079	1	536	

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4039	34407	A	4080	368	1449	LKSTNLITFLRLFPQMPLAYM KFTPSGLVAACAPWLRQRRVV QLGQIAFSAP/YLSQMVRQEMY NRYGESAYEDGYRIYTTITRKV QQAQQAVRNNVLDYDMRHG YRGPANVLWKVGESAWDNNK ITDTLKALPTYGPLLPAAVTSA NPQQATAMLADGSTVALSMEG VRWARPYRSDTQQGPTPRKVT DVLQTGQQIWVRQVGDAWWL AQVPEVNSALVSINPQNGAVM ALALLNNARPWYLGAQPRDSTI IFCQFGAHPLLDPKTQPVGCRN AARKSCAEIRLVPDARANSKGL VRRYRKYRRQYHKSKSRHQPL RQQQPVRLDWRNVNDNQYALT TRFLYQSLQRHAQLNVPLFHV
4040	34408	A	4081	1420	1842	
4041	34409	A	4082	407	1347	GRIRVHIHKDGRADGGSQPGVT AIQQQLPFAFAFPN*SY*TESAW AQSIK\GPWWLRDQVDGPAGR LAALPQR/SLINAVSTRMEGISG AFNTANPACST*FLCSLLILPSLF STALPNFRLSAMVSDCTISNMV WST/SAVTDWSCTPLD*ERKHR GTARLTTGKGVGMDRDKQVST LFLGFCYAHLQWNEDVFIARH VHLHIALFLDQRAQTASYLQYH IFFARFVFPHRTGVFATVARLK HNDNRTIAPCFTRLWTTLRWR HLLFEVAFVVILQQRQQRVLHI LCIGRIEVHHQTLFKPGDRRKG KQLRFYVLL
4042	34410	A	4083	1	649	MRHGYPARANVLVKVGESAW DNNKDYRYAKALPTYGPLLPA AVTS/ANPQQATAMLADGSTV A/LSMEGVRWARPYRSDT/QQG PTPRKVTDLVLTGQ/QIWVRQV GDAWWLAQV/PEVNSALVSINP QNGAV/MALVGGFDNFQSKFN RATQALRQAGAHLPASQSGH HQQTAR*KSNFCARM*TPDQLS W**KNCPFRLSPT*QRQWSLRR YRPVSQRTSF

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4043	34411	A	4084	2	551	WRAAGPEPCPTGRQLRP/AGDL ACSAAGPGAEPFTAPLALAGR SKCGAAEPAPTQNSRWPMSPH LSLHASPQAEAGSGL/VPAPR AAAG*RAPQMRP/VVGAEAE APGP*EPCRHPAPHASQHRYGC HPS/AAEPCRHPAPHASQHRYG CHPSGLNPAGTQHPMPASTGTA AIHRG*TLAPSSP
4044	34412	B	4085	1	1029	
4045	34413	A	4086	1	2157	
4046	34414	A	4087	1258	1838	TQVVFITSAWGLGEMVVQGA NPDEFYVHKPTLAANRPAIVRR TMGSKKIRMVYAPTQEHGKQV KIEDVPQEQRDIFSLTNE\EVQE LAQQAQVQIEKHVYGSPMD/IEW/ AKDG/HTGNHGVQALRNRCPE ARQHRMRIPGRILPRPIGRMAG PKTRIEHTSVTVISNRRKIKTEN RGHKGYEDRKLHEDLQLRHQS
4047	34415	A	4088	2806	3540	
4048	34416	B	4089	1	1251	
4049	34417	A	4090	341	946	GLSSVGQSVNDHLPWT*GLSSV GQSVNDHLPWT*GLSSVGQSV NDHLPWT*GLSSVGQSVNDHLP WA*VLSSVRQSIDDHLPWT*VL SSVRQSIDDHLPWT*GLSSVGQ SVDDHLPWT*GLSSVGQSVDDH LPWT*VLSSVRQSIDDHLPWT* GLSSVGQSVDDHLP*M*GLSSV RQ*VT*AKVNPKISAVTRNRGS VESPHLEGRSLKVQVFIPQVED MSWGPPWLWVEGESWT
4050	34418	A	4091	426	706	VLGGGSEEKAPLWWSGPMVLP GAHSMKT*LPHTHVEFGFACLA SAGAQDVGMGPRHTTENSVT GSPSHFPPRASQHRRGICRPHAG RATADF
4051	34419	A	4092	596	905	GLSSVGQSIDDHLPWT*VLSSV RQSIDDHLPWT*GLSSVGQSVDD HLPWT*GLSSVGQSVDDHLP WT*GLSSVGQSVDDHLPWS*G LSSVGQSVDDHLPWT*GLSSVG QSIDDHLPWA*VLSSVRQSIDD HLPWT*VLSSVRQSIDD/HSSMD VRSV*CRTISR*PSSMDVRAV*C RTINR*PSSMDVSAV*CKTINR* PSSMDVRSV*CRTISR*PS\P*T* GLMSLIPSQLCGLSAVTPFSAV TRNRGS\ENHPILKAAASRSKSS FPRLKT

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4052	34420	A	4093	3	1194	SLGPRSHSCCRSDYRSGTTVPL VLLPVCVGPALLVFALLSPLCV VCSALCGLLPVLRASLFLWCV AFLAGLVFVFGFAFFGSLVRGR FLVVVPFFLLFALCRLFLVCW LRSFGACPVSVCVAGFACFAGL FLVLVSLSSGFGFRLSFSCVVG SLCLPGFAFRAFCLFFLPCVGP LLAFPGFCGPSSPSLSYGGLFAP WSCALLGFFGCLGWSAPGFLSS FGLSVRVLSLPCASGLRSLSGC ALVPGLFLPWVFSRSLRPLVSF GCLLCSEVSHNMDWIKES\AG KVIQGNP*WLPVILFFGSVPLTS KAATAKPLMRMG\RALTVSQ T\AVASFAAVYGLFILPT*PTLV GAVQMDDTGTTTRIGKLVS NHPFFIRVLLGVALTVCFGV LGSF
4053	34421	C	4094	70	1950	
4054	34422	B	4095	262	4347	
4055	34423	A	4096	2	458	
4056	34424	A	4097	2	445	QPTERGLCASLKPSRAAIKSQSS KVISFDSMSHIQGTVVQGVGSQ GLEQQYRSGVAVFRLHSFSHRL LSACEFSRCRVQAVSRSIILGSG RWQPPSHSSTREWPSGHTVWG LQPHISPLHCPKDSL*GLCLCN KLPPENLGFSYVL

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4057	34425	A	4098	1	2589	MVWFLKNVNHGHTHTNAKKYN DVENKERTGWKVGSTYLLCA RPLRKGNVGLSGDVFLTVFVM KTGHSSSLPSTTTSDSTAQEGY ESRGGMLDWKHLDDSPDSTD LGAVSSHNHQQDKAMKLDGEE RPFNEPGVFHLLADHQLTQKV ASIPGSAVCAYDMLDIASVFTG RFKEQKSPDSTWTPVDERVPK PRPGCCAGSSSLERYATSNEFPD DTLNFIKTHPLMDEAVPSIFNRP WFLRTMVRYRLTKIAVDTAAG PYQNHTVVFLGSEKGIILKFLAR IGNSGFLNDSLFLLEMSVYNSE KKWSTAKPVRVTIILNPGQASF CITLRETVC*RRKHIWCPPYRC TLQ*HFCPCH\CLSGKETLCRV T GGMKVKADRDESLPYAAMLA AQDMAQRCKELGITALHIKHR ATGGNRTKTPGPGA\SRPSSPCP LGCLK/WQTLFPRRLRWPGGG RRKRSQLEAQRVIRESYLKGH D QLVPVTLAIAVILAFVMGAVF SGITVYCVCDHRRKDVAVVQR KEKELTHSRRGSMSSVTKLSGL FGDTQSKDPKPEAILTPLMHNG KLATPGNTAKMLIKADQHHL D LTALPTPESTPTLQQKRKPSRGS REWERNQNLINACTKDMPPMG SPVIPTDLPLRASPSHIPSVV VLP ITQQGYQHEYVDQPKMSEVAQ MALEDQAATLEYKTIKEHLSSK
4058	34426	B	4099	1	1299	
4059	34427	A	4100	95	502	FPEIPQSCREGAPGPAKPGGPRA REPCPNRTAASWGVHCEGGS TVRTGGPL*GRGVHREDGASSP QHPPRRGRGLGHLGPRPL*GQG DAAAAPGHRGKS/GGKGFLPAL RVQRGERGRVSRRAVCMWTSL CASVPS
4060	34428	A	4101	2	653	DSFGSMSVLKPNRTLFGGKPY VCRECGRGFTWKSNIHQRT H SGEKPYVCKDCGRGFTWKSNI L FTHQRTHSGLKLYVCKECSF Q SLKSNLITHQRAHTGEKPYVCR E ECGRGFRQSHLVHRKRT HSG EKPYICRECEQGFSQKSHLIR HL RTHTEKPYVCTECGRHFSWK SNLKTHQRTHSGVKPYV CLEC GQCFSLKSNLNKHQIRSHTEK

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4061	34429	A	4102	8	389	LPASASQSVGTTGVISFENTCNI CHFFFLLLFFSSSSSFFLPFSFS FRVSLF*IQPLKTTASTVQGRQH SGGYRASPERRADQRAHTGEK P/YVCRECGRGFRQSHLQLSV YPHSFWTQDKRSNH
4062	34430	A	4103	1	740	EGKRGRPFRIIPRAHPFPHELQS RLCILKPLHHPTPSSCPSS*TPVA PLPSHPCAPH/SARSCPVSDEAA LAP*SMALWARAGLLEAPTLL PAAPDASSPA/MPPSRKLPPPLP L/CPEPLGPSAAPSPPAPPGPNA AARPPL/PPSPSAAPGPRRPGA\R PVGPSRGP/PRNSRSLRAPDVH TAPMRCLPSVRPPLPVLSAL/PD PLPRPPSFVPSLPSP/PSSGPSCPP TSAPPGSPRPGFVRLPCLLFWGS
4063	34431	B	4104	48	272	
4064	34432	A	4105	2	622	CPLSPLFNIVLELLARAIRKEK */LKGIQIGEEVKLSLFGDDLIV YLENPKYSSKKLLELVNEFNKV SGYKIYVHKSVALLYTNSDQAE NQIKNSTPFTTATSSSSSSSSSP QGIFLTKRLKNF*RGKFKTLVK KNQGDPKKGKNPPGPKMGKN NFGKTPFWAKKI*KFHSIPKKT PPFFQKLKKTGVKFFWAPKGP KGFLSKK
4065	34433	A	4106	39	1043	QKQPVWQRCREIGTLGYCGWK WTLDIHGRGHRILSGGVEIPGP WTEGFIQGRDVGELQEPGLSGR ESIH*\GKSYEYECSEDGEVFRV RASLTNHQVIHTAEKPYKCTEC GKVFSRNSHLVEHWRIHTGQK PYKCSECDKVFNRNSNLARHQ RIHTGEKPHKCNECGKAFRECS GLTTHLVIHTGEKPYKCNECGK NFRHKFSLTNHQRSHAETKPYK CNECGKVFSLLSYLARHQIHS EKPYKCNECGRAFHKRPGLMA HLLIHTGEKPYKCNECDKVFGR KF\NLTNHQRIHTGERPYKCNA CGKVFNQNPHLRHRKIHAGE NSLRTLQME

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4066	34434	A	4107	3	941	QQHQQQQHVFVGQVAIQQQQQ QGPVQTNQALGPKPQGLMPP SSHQDLLVQQVSPRPPQGPQG MVGPAQVGVQLQIHLHGALGP QGLH*QVFMPIQSRVFSSPQLA QQGQGLMGHRLVTAQQQQQQ QQHQQQGSMAGLSHLQQSLMS HSGQPKLSAQPMCSLLQLLQQ QQLLS*QQLHQQQQQQQQLQQQ QQL*QPQLHQQQQQQQQLQQQ PQQL\QQQHQQQLQQPQINSQ/HL FPSRRPPNHMGLLTHSPNLTA LRLTSTHKAALGPGLQAALGHP KDGLLWKTGTWRARGLICGTG GIISYFTQHSWEVKVFTTL
4067	34435	A	4108	1	2255	MEKNKVVKREAEANSINLSVY EPFKVRKAEDKLKENDNVLE NRVLDGKLSSEKNDTCLPGTAP SKTKSSSKLSSCSSAIMALSACK AASDSCKEPVANSRESSPLPKE VNDSQARAPLQSTVMTNAVSP AELTPKQVTIKPVATAFLPVSA VNEMKTAGSRVINLKLANTT VKATVISAASVQSASSAIKAAAN AIQQQTVVVPAPSRANAKLVPK TVHLANINLLPQGAQATSELRQ VLTKAQQQIKQAIINAAASQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEVTCHNGTK NLIFYNKCSLLSHARGHKEKGV AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSlyTCPECGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHEVFYKCPICPMACKSAP STHSHTYTQHPGIKIGEPEIIYKC SMCDTVFTLQTLRYRHFQDQHIE NQKLSVFKCPDCYLLYAQKQL MMDHIKSMHGTLKSIEGPPNGL INLPLSIKPATQNSANQNKEDT KSMNGKEKLEKSPSPVKKSV ETKKVASPGWTCWECDFLIQ RDVYISHVRKEQGKQMKKHPC RHLCQHNRIKHKGIRKVYACSH CPDSRRTFTKRLMLEKHVQLM
4068	34436	B	4109	1	411	
4069	34437	C	4110	54	146	
4070	34438	A	4111	1	1937	

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4071	34439	A	4112	1	1830	MCIEVTCNHCTKNLIVYNKCNL LSQARGHKEKGVVMQCSYSIL KPVSAAGHIIVSPSSNSSSSSTLQ SPVGTGIHTVTKIQSGITGTVISA PSSTPSTTAMPLDEDPSKLCRH NLKCLKCNEIFQDKRSLATHFQ QAADMSGQKTCTICQMLLPNQ/ CQRIHQHKSPYTCPECRAICRK KRT\QIHEWERETGKEISISFEKK SMETKKVASPGWTCWECDFLF MQRDVYISHLRKEHGKQMKK HPCRQCDKPFSSSHRLCWHNRI KHKGIRKVVYACSHCPDSTGTFT KGLMLEKHV\H*CMASRTLTK K*QTPPMRRKQK*K*TSRSAVP SG\VERTGSGVQASQRSNNSTT EKAENQCF*GSQAPLCCTQVKG TSASAQAKWGWRR*PTGEQTQ PRGRISQWVMSDRKCKVCAKT FETKAALNTHMQTHGHAEGCL KQPCRSLLSQPRIKTEARNLIRN ADFLNSILRN GEGYSKEKKNGT GFLGRSARLALGAQGGKSWRF LFWVLLPNVLVLRVGMHVDN HRLINAAGCVSQLAVTLSTEPH GISSAISRVPRHCHPSGENSMAT SLNVNRSISRLAAGSGVLAMD PIPAGHRAIETGLLGTEDETEQ
4072	34440	C	4113	217	510	
4073	34441	A	4114	210	281	
4074	34442	A	4115	1	675	
4075	34443	C	4116	126	434	
4076	34444	A	4117	804	2061	WERREAGGEDEGINIHEP*VEE EMKKHESNNVGLLENLTNGVT AGNGDNGLIPQRKSRTPENQQF PDNESEEYHSLGDKSKTSFQNS NNNNNKQQEQQQNPFSNTR KLTCLYKAPIPPSIILSGCPNIND SNWQEIIEHGMQTAGLPTRPLSH GLQQKGAAFRCLGCKCSEPTG SLILQKAKTNTQKWQATYPKS QNEQLVPSVGKSYRCSTPAQP MKTAVGHKPKCATGAELPKAL GAQPLHPCALDVGQGFKKGNF GAVGLNGLLGLEFHGVSGVLL VGPGDGGIIEGVVREDLMCG VWSAGTWSVGTAERCLEKPGA LHVIEGPLDSWDGPVMPNGPV KSRQSSCLDGPGRCCSEILTGQS HGNKKPARASSKSSQSINDRPL AVLTNQYQCEQLASERQPSNS

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4077	34445	A	4118	1	357	GKLM LPGSTRKPQVPVDRKMG HEGVFVWQAGLRARPGPSLPFS HGLTLHLHWPLALPV/GATSSP CEAGDLGVPLAAGTWCPWEA *RQEEAGWQAPGRAGPARVG WGGTGLTSAEVIITI
4078	34446	A	4119	1	771	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQGIG/ GPPP/GYQKCR*DTASMLTMAP CHGPVCPHPGWRPRSGSRVIL PAPPGHHPWP\GPRARNGLGTF QGCSTGWQVQETCFPGGWL DRHLVGPAATGARCLPAARGP/ DGALHPAVPTGKLKGQP\GPGA RHQRTYD*LPRPCGAAGLGSP A*HPISEETENQWGLHGPPQPA WARPDHGCQ/APTLSPSLKRKP GRVTAGGPMPCGFSTSSVPTT
4079	34447	A	4120	1	402	MLISHKQLSPQLLSLTLPLSEK AGWAGECPNPPSKDSPVQIGD LHQLPKMQIRYSIHADDGSPR AAHKRGLRKRTLKTISLPRQES AFPFHGQGGDPGVVPGSSFLHP LGTTGQGPARNGLG\PSRAA PPAGRGVAGGSPSGG\PAATGA RCLPAARGPVGPYTQSQSRAS* KGS LGPGARHQRTYD*LPRPCG AAGLGSPPA*HPISEETENQWG LHGPPQPAWARPDHGRQPLRC HPP*RGSGGPQKAAVSQQIPR AGQEGTH*DPTEWGPDPGDQG GPRESRGLQGGRGQCLCDWS PNTSEI*YPHA*NGD*KAGPPM DTKSQLQVSTPKSPASHGEDVA RLEEPEASGD/RSVP\GLPGASLI PIWRPPFSRISVRTFLPSPWNLL RDCGFLGTSLASSSGRVTA
4080	34448	C	4121	111	218	
4081	34449	A	4122	2	453	WWPVLSVPPECRLPGRLPSPG*V RGPAPWWPEPASQDKSQLSSR GFP GK VSLGKGMAFSPLQTAP* KWLGLSPPLSSTENTASRGHTS PSSRNGFDSQPRDSRTGRECQA TQLPAQSHAEVLHFGGAMSG QLSLVGPQDSKRTARLTDSQ

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4082	34450	A	4123	1146	1775	KGWLEGAPEA*ERYPGPPCCVV CSLSDAPWVGHPAPSLGV*EP NPP*SRGESQGTSSICRQSSGD LG*KLESPIHTVIPRHTSQARQG HTAPFPFQVPS*LLV*LKAVSL APAEAP*PASGLHAPWPVAPRV TCAI/PAKGTTVPAGPAELRPVS PPPILLP/PDSRSSAFPSRKGPA SP YETCSPTS*/EVPS*TYKSMGP GIRLPALPASPRVPSEGPGLSEH PEGPPALPPAIPFS\SPSWFKQCS FSIRPGWLLHGAPQGGKWPQA SWVGKTG*PEKRGSPRGPEHSA LNLRLVALPGVA*EGPACVWG GGPPQPPGAICEATAPPSI/VPPL SLPAPFPGTLP/PPTPAASP/PPAL PPLLRRGRPRPCAALALPALSSL FS/PPVFSLLSLQLPADRVVRQVH PVLRAPGPPFRPPKQIPSSSGDL PFPSLPGR/PVL*LEKWLPPAPK ASPPSSVNLILLVVVKLNTFRCG PLVKNLVPPSVVCPCPCSYKYL *ILIYIHTLHMGQPPSPSSAGNQ SLCYPCGGLVAQPTKRTLVPPTI QLQSVPPPV/KPPCHARPVDSQP PPSLPPPTKHGGAVQAAVWPDS FYPVLLSLG
4083	34451	A	4124	146	1701	TFLGYLETAHGPSAQQCPTGLF AFRSLGRGLLLTSLPKQPARSPP REDVPRSTTQEMTRPRHPPRKP AQPGLGARRRGAPV/RGLSKSR ELNSGNTSDSGNSFTAPPHPRTR GPCWRISPPPAGAESQGDAMLL ARMCQMPSLGLMSRTFPHSST GKARGFQSPCLECAEVKKSSLV PSTARSSPMKGCSSSSYASTRS SSHSSQSPNPRASPRVRTIITCIL *TRKRPRETKSSAKVTHYYSSK SGKRSPPSRSSRSRRSPSYSRYS PSSPNSPADIPQNSHPQPSASTD RPHIQSPQFLPTHQGLRNIHVLT PAAPALL*CPPANADTPAQAP PPLRY*QPSQTLTAAPSSSLRSP LRQRADPIP*PSGGAGSQIQ\WK DSQQRERERARRRRRSYSPMR KRRRDSPSHLEARRITSARKRPI PYYRPSPPSSGSLSSSTSSWYSSSS SRASRSYSRSRSRSRRRRSRT RTSSSSSSRSPSPGSRSRSRSR SRSRSRSQSRSYSSADSYSTRR

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4084	34452	A	4125	1	1068	MLLLELNAPEHVLETINFQTLT AFCNTFHILRPTKAPGFVYAWL ELISHRIFIARMLAHTPQQKGW PMYAQLLIDLFKYLAFLRNVE LTKPMQILYKGTLRVLLVLLHD FPEFLCDYHYGFCDVIPNCIQL RNLILSAFPRNMRLPDPFTPNLK VDMLSEINIAPRILTNFTGVMPP QFKKDLD SYLKTRSPVTF LSDL RSN\LQVSNEPGNRYNLQLINA LVLYVGTQAIAHINKGSTPSM STITHSAHMDIFQNLAVDLDTE GRYLF LNAIANQ\LRYPNSHTH YFSC TML\YLFGR RANSGRPFQ\ EQITRVLLERLIVNRHPWGLLI TFIELIKNPAFKFWNHEFVHCAP
4085	34453	A	4126	1	984	MQANLEMAGNGVTSMGMEPL AIPHIYCCSEGTCNFSNTENHCL RAALSMLLNGTPFAFVIDLAAL ASRREYLKLDKWLTDKIREHGP SVHGLFPSRVLSPALGPGAFPG RHNCGSCVAPQSGLPGVHPVEL PWSISKLFRLRSPANFSDVLGSR SKVLLLMCTLK YCGMQLGADA TRVDMLTFLPTLG FIRNNDYTD DTKASELTELSHNLHAYDSVTG VPGDETECKSTVSTWAYTAESL QGYMAAKLLGRNLTVP SRYLF LNAIANQLRYPNSHTHYFSC TM LYLFAEANTEAIQE QIT/RLVRE RI*S*ANAYWHSEKFYQFTCEL
4086	34454	C	4127	1	399	
4087	34455	A	4128	1	868	MANVCNPSTLGGRGGRITRRPE DPGSPVYSVPPASYHPKPWLGA QPATVVTPGVNVTLCRAPQP AWRFG LFKPGEIAPLLFRDVSS ELAEFFLEEVTPAQGGIYRCCY RRPDWGPVWSQPSDVLELLV TEELPRPSLVALPGPVVGPAN VSLRCAGRLRNMSFVLYREGV AAPLQYRHSAPWADFTLLGA RAPGTYS CYHTPSAPYVLSQR SEVLVISWENTLAPPTTPGGT*S AWGWPGWSSSPWARWSLLTG AVRTALLLPQVPHRATTPWVT SYDWVWLP
4088	34456	A	4129	1	270	
4089	34457	B	4130	39	919	

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4090	34458	A	4131	3	466	GRALCPPRLLAAGRVLGPGRRS PG\PGPGVP/GG*R*GGAEP RPG APRGRVLPPSAGSGQFSAATPA QNGLPALRGPGSRPGIRSKAVR PVPLGRVGVYFRDALRASGQS GRKLC CIGNTLSPTSFSVGKEVP RKHETNQKHEKGILCMEAVKP
4091	34459	A	4132	1	1647	MWRWLYAGARMTVRDKQPLE QMLAGCTHASLVPTQLWRLLV NRSSVSLKAVLLGGAIPVELT EQARDMGIRFCG YGLTEFAST VCAKEADGLADVGSPLPGREV KIVNNEVWLRAASMAEGYWR NGQLVSLVNDEGWYATDRRE MHNGKLTIVGRLDNLFFSGGEG IQPEEVERVIAAHPAVLQVFIVP VADKEFCHRPVAVMEYDHESV DLSEWVKDKLARFQHLVRWLT LPAEPKNGGIKFHVS AKRVGAL TTRMEAAQQHADDKIRQMINS EQRLSEQFENLANRIFEHSNRR VDEQNRQSLNSLLSPLREQLDG FRRQFRTASLMKVAGWDYLM NSLYNANSSALVNRVRYKWIA AFEGGFTGIVATLDTGRPGPVM AFRVDMDALDLSEEQDVSHRP YRDGFASCNAGMMHACGHDG HTAIGLGLAHTLKQFESGLHGV IKLIFQPAEE\VRVARGRWSMQ VS*MMLIILLPCTLALAYLRALL CAAVIILWQPPNLTRTSPVPLT QAQNQKTVTMPCWRTSHSCT ACNRPAQRSSFQS
4092	34460	A	4133	864	1128	TGRSTIRRQRREPRRKAATLRF DRNGCRARCTPP\GRKEQRYQQ TADGDKGAEFYRRPEGVEIVA VMEQRDEVIQADKLAGETKRI DAL
4093	34461	A	4134	618	1102	HSNAAPTARSSFVQNT PSSCGY SRRAWRISSIPEETDRTSYRNIQ CGNHPPVPARLPAGQTGDGDIP PRPRWQSPQTAPRKPPDLP/LIR KNKIPMFRSATTQPLGTGTIAK ASSEVKAIIGARVKMTRSENF GIQSSLKNILIMSATSWSEPPQP TRLGP

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4094	34462	A	4135	2400	3201	VGGGRNRSPGVACWVEDGNG DAVRDGWALDADWQASQAM RRKQPE\YVQHDAATADADR QMNMPV\H\RALVAGRAQEM NGAQGKTLKGW\DEASARRG TKTED\FCEEDTRDDAMIAWM PR*PGVLPRADAWANVLNHGV GWKKAQLK\STWM\QVQQ*W RGD\KAANSNAAVAHTVLLN SGGDATQ/TAAFPISPLSV/EEV CVTMVIA*FWMWDSGSGGVVL CSSSGRSLTWSATKVRG/SGH KGRWCSRQGVTCQVRHGGHV APH
4095	34463	A	4136	118	1008	
4096	34464	A	4137	3	1140	KHTYMLSILKPVRTSALPPPAP AQLCTQLSRVSSRL*DHPSR WGLR/PSTGMSQARACSPGSLG WMQRSSFTPGAGRVRHIPN\SA GSTRRPACGSRSAAPVRPCRR TR*G/RSSVVERFMTALSLACR ALPGP*AAPGPSITRRFTISAELK DTRL/PREHVVPLVCTHAIAVPD RGAAVRPTRRRDAAAPPSPLVG DVTLCQPSQ*RGSNAPDQVRLP CVG*RPRSSLQRSGLSVFSADGS TSGPEPASGRKDAGWPVRLRF GTLSRGAPEAGADWGPYSPGSP GAAASGAPWLGPQALQGAG GQLVGSENGERTGTKPRVSVS VAYGEIALPADTSWSSRAGAA VLLGLSRSTGGEGPGNMGHGG QSQMLTLEVL
4097	34465	A	4138	10	585	PLEMELNLISIEVWGERLGISTG TEKMPTLKHRTWPVECSKASSL EGDLRSL/S*LEVISAFSADPASA DDSPGCWKKDDDCSMVHLHR QEWQQQCCQ*K*RKQPPGER RNKCGSHPVCGTVLWQP*QTH\ QISSCPTVGCPPSHSSFSILDGAN AGQEKQSTTEPEPALFLLPPSRG AFGPFGLLSDLRRQL
4098	34466	A	4139	1	474	
4099	34467	A	4140	458	612	ASCMASVDISVLTCMWRCTIEQ SSSFLCLLTPLWE*SWCHVTRIC PFISLG

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4100	34468	A	4141	1	829	MGRPDLILSSILGLRWLLLPQSS RAGRRGAIREASDAEQVTFSGG TVPARTSSGREWRSLLGPDMET TSLFCIDTKTTLFVYRYGDHIP LVPEQSGLEPLLIWADPGLFHV RLFHLLTIDDNFCGLDMNAPLG VSDMVRGIPVFTEDRDRMTSVI AYVYKNHSLAFVGTSGKLLKK /VRSSAAP*VWDQDTPRSLGQQ GAQRQP/ILRQCVYTFQNL*RC PHSTARRELRTGGFIPTRSHQD GLRSAARCTQGTQ*ASWSCV HVCASVRAMCSYC
4101	34469	A	4142	5	237	NFGAMTRIR\DLPEINPLSSCS SLCEKDPPTTSSPQTN*PKEHHT NFQSETGDEFYPWTQNFSTGHG LGKTVFPWCL
4102	34470	A	4143	1125	1190	
4103	34471	A	4144	306	573	RNFGAMTRIR\DLPEINPLSSC SLLREKDPPTTSGPQTNQPKKH LTNFKSGKRPLLTLFSNLSHCPS TTFFFPFFNLSSLLISIPFIW
4104	34472	A	4145	1	329	ASHSWQTLQHSGRYSRSSG/SA GSPRDCAARAPTISPGCMAWL NLDSISPSSQSKASPLSQLTCPET SYTGCP*SAPHSPPPWCPQERC ACKGHCLHHRDGCCGYGYN
4105	34473	A	4146	2	336	SILTRKCKYGMIEPT/NIPGLGA AGPTGMFFGSAPSPMGGISPAM TPWNQGATPAYGAWSVSGSG MTPGAAGFSPPKA/PTYSPTSPG YSPTSPTYSLTSPAISPDDSDEE
4106	34474	B	4147	1	1260	
4107	34475	A	4148	150	335	SFQQSAPW*ASGQSCASDPAPP ATARGRFPHQSQAHSRHSPIP DPLPPCSGGWGHSRW
4108	34476	B	4149	1	3267	

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4109	34477	A	4150	1528	2973	GKQIFSLIIPGHINCIRTHSTHPD DEDSGPYKHISPGDTKTVINNW LLIEGHTIGIGDSIADSKTYQDIQ NTIKKAKQDVIEVIEKAHNNEL EPTPGNTRLRQTFENQVIAVVGQ QNVEGKRIP*LPPPL*WGAGR EGVG*CGRFSEHSRSSAAGYRG GRPCC\PSWEDDP/GAPDPAS AQIPAPTRSGCVRCSARSPGPP AECAAGPSHWYNQSGTSSQKP CWKA*AYPGSGTQSRGSGAR SHP**SEAESGA*SQMESACPRR SAVQRQQ*PDSQTSAAECSLG WAPAHCCVPSR*PLLRPAWPS* *CSECPGKS*NQQWSPQCQ*YD PNPQSTVVAEDQEWNVYYE MPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFG DDLNCIFNDDNAEKLVLIRIM NSDENKMQEVMGVLEVSVSHV
4110	34478	A	4151	459	940	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGPALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGPACTPPPCRPPARRTCTG RCPSPCCLCGSPITWRRPPPTG GALESPKRR
4111	34479	A	4152	264	1386	SSRCQPVCESGHPGYGQSPA/YT TAGRTESGGTGST/GDNHPLWP CI/GGAPCPAQNTPHLRV*RS ALALDSAGSSSPESPH*RASIPH TTLGQKRRSWAGTAHS\PMAPC AAASISTST*LSHHHSPAAQSVC PSSHTTPSFCPIQKFHCFR/SPQR NTS*VVLCPGG*LRVG*WPSSG HDRSWYHTREPSVGN*HRSHQ RR*RGTAAPGPSARLQCPARG SRSSHSAPASSRRPFPGSTPAG LGFPSARFPVGKPVVPAALMNR PTRGERRFAYWAPGWFFFSPVR RATADCPSP/SWP*ESCSKRSTL VCPSRRKSCLMVVPKSAKSPVL AK/YGPVGHHDGTEHDVVLGE VQGKRPVAPTMTGPKHKAVHP RAPH
4112	34480	B	4153	52	363	

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4113	34481	A	4154	321	802	HLPGGGVPGREGGSPDQHVAP GAVSGGAGGGSTRGRGSRRRR PGRPRPGPRQPRRGALPGGEHG LRASARCAARAQQRDPG/TPSC SSWACPTPRRPWAPAASSRLRR PPRGACATPPPCRPPARRTCTG RCPSPCCLCGSPTTWRRPPPTG GALESPKRR
4114	34482	A	4155	15	263	CGRFSEHSRSSAAGYRGGRPCC \PSWEDDP/GAPPDPPASAQIPAP TRSGCVRCSARSPGPPECAA GPSHWYNQSGTWKCKG
4115	34483	A	4156	3	518	SPSVGSGMTPGAAGFSPSAASD ASGFSPGYSPAWSKPGVPGVP QVPSKPLKSLHPGGVVRHLSGQ VCFLHSSG*VCPLLISFVGCFPT GGAMSPSYSPTSPA\YEPRSPGG YTPQSPSYSPTSPSYSPTSPSYSP TSPNYSPTSPSYSPTSPSYSPTSG SYSPTSPSYSPT
4116	34484	B	4157	620	6763	
4117	34485	C	4158	430	870	
4118	34486	A	4159	1	3039	MDSETRRTAKVRLLMTVLRDQ DRVSGVQAHPEQFQQAICPLCG VSLTRSGTTFGSPSEIYSPLGESR ASSGLPRRDGRLIGEEPPEKKFS RSPKGD/LSSGGQRIDYRVCVPT KFNL*VLSF*PRGQGAGGQSPG FSVRLLVLVWSSGTFV*NGK* QKLL*TLCECVHD*GVQGPASG SPVCSSTAKATEFEKDPSGPFSS SSLPLTPYISFSRVTASSASPLG SALTPQTLKRKGRI*AICL*VVE TPKVFR
4119	34487	A	4160	1	772	MVARAFLWSQVIRRLGRKGGL SQGDRGCNTALAEGRLLDPDLT RGHPALCLPRRPAPRPAEVRRE GEAEQPEAGQPPGAAPRRARD NGAAAAAAGGRLLQSVRPVV CPHPGPQASYGLRYIAKVLKNS IHEKFPDATEDELLKIVGNLLY YRYMNPAPVAPDGFDDMTA GGQNNSDQRKNLRSTAKVLQH AASNKLFEGENEHLSSMNNYLS ETYQEFRFKNVTFDIIATEDVGI FDVRSKFLGVEMEKVQLNIQ
4120	34488	A	4161	174	444	YHRHDSWRNTRR*IKLDGKGE PKGAESEATSKYTAALKHEK GVLLDIDDLQTNQNAVNDFSV GPQDEVIVEDITNCYLCEIFKRY EWVT

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4121	34489	A	4162	379	520	GTSHRGASQRRCCPPLSKTGPK TPCGKGAPSAP*QGGLDVQGEP GGK\GDSSGECVGGNVAGLHK GGGTRADSQVPGGMRGGRMS Y/GG/HLTAEGPMGRSGPR/GAV PSLYPPGFSRGSCSRQYSGAHM PILTGHVGSSESLDPPRAGQD RFLGTARP*GTSHRGASQRRCC PPLSKTGPKTPCGKGAPSAPFIP AGPTFDHKALM
4122	34490	A	4163	455	798	
4123	34491	A	4164	32	2109	WIGGCPGSQPDATAIMGWTLA PHSSRCHRCCHYRCHCRCLCP AEMTVGRPEGAPGGAEGSRQIF PPESFADTEAGEELSGDGLVLP RASKLDEVLSPQEEIDPTSDSTG SIYHTLLDLAQKGRWLSVWSLS FSLTQRVMKTSCLKMRRTWRVS SKTRTGGWCRSSARRL*GVAPQ GAA/DSLNNLPSNIPRPQTQPPS GSRPPSQHRVSWSWASSITVPRP FRMTLREARKKAEWLGSPASF EQERQRAQRQGEEEAECRQF RAQPVPAHVLYPLYQEIMERSE ARRQAGIQKRKELLSSCLKPFSF LEKEEQLKEAARQRDLAATAE AKISKQKATRRIPKSILEPALGD KLQEAELFRKIRIQMRALDMLQ MASSPIASSNNRANPQPRTATRT QQEKLGLHTNFRFQPRVNPVV PDYEGLYKAFQRRAAKRRETQ EATRNPFLRTANLRHPQRPC DAATTGRRQDSPQPATPLPRS RSLGLASLSANTLPVHITDATR KRESAVRSALEKKNKADESIQ WLEIHKKKSQAMSKSVTLRAK AMDPHKSLEEVFKAKLKENRN NDRKRAKEYKKELEEMKQRIQ TRPYLFEQVAKDLAKKEAEQW YLDTLKQAG\RRKTL*ETRVKA PGLFKRKRPKSRIFPGSKKLQNS ASEIQSR/RLEGSLEQPASPRKV LEELSHQSPENLVSLA
4124	34492	A	4165	251	637	

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4125	34493	A	4166	1	1344	PGRTTRSMAEDVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEEE EEEEDAVLVAEAEAVAAGWM LNFLCLSLCRAFREGREDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKQAIIVCMENGNFKG AEEVFERIFGDPNSVHMPFKSKL LMIISQKDTFHSFF\QHFSYNHM MEKIKSYV\NYVLSEKSSTFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYYKKC*LT NSLR*LNPQRVQYPY*GSHKNL FLSKLQHGTQQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHKRARKRQAWLWE EDKNLRSGVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
4126	34494	A	4167	1	1345	IPGSTISCLKGQYPSEPFNMAED VSSAAPSPRGCADGRDADPTEE QMAETERNDEEQFERQELLEC QVQVGAPEEEEEEEEDAGLV AEAEAVAAGWMLDFLCLSLCR AFRDGRSEDFRRTNSAEAIHGH LSSLTACQLRTIYICQFLTRIAA GKTLDAQFENDERITPLESALMI WGSIEKEHDKLHEEIQNLIKQAI IVCMENGNFKEAEEVFERIFG DPNSHMPFKSKLLMIISQKDTF HSFFQHFSYNHMMKIKSYVN YVLSEKSSTFLMKAAAKVVES KRTRTITSQDKPSGNDVEMETE ANLDTRKRSHKNLFLSKLQHG TQQQDLNKKERRVGTLOSTKK KKESRRATESRIPVSKSQPVTPK KHKRARKRQAWLWEEDKNLRS GVRKYGEGNWSKILLHYKFNN R\TSVMLKARWRTMKKLKLIS SDSEDWIVFVKL
4127	34495	A	4168	3	378	LTSGSRADQGEGQEEGAEGGR ASSSSSSSPRGPQHHPHLHGD AEHRPGHPLCSPPDLTVA YQ/M PEVPAEDM/SDPSFCSARQGGQ RGLDSGP GAPWSSSHSPHSRFQ EASHGACAGWRWCRQEEL

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4128	34496	A	4169	1	1044	SGQEVNKEDGQADVQQDHHA DEDGVGDLARQPHLFHLHLRL CRQCGLLPRLLLGPRLGQPSSLS LAGLGPLGFGDDGLGLQLGG GLACRLGASERGGGLQRGGGRG RGRGLPG/GPRARAGPQRVGA RAAWCAQHSCGSPGKAPPPAP A/TGAGGACRASMAMRSVAGR AGLRRPAPSDGVTDRPLSPLGS PFQAP/EAQQAVLGHPGPGPLG LRGRPGR*RGATLGPRGLT/PRA AAGSRGA AVGGPLRRRPGRGA PAGSPSSPGSPAAAGASDIPDLA GRSPEPAPWPKCEQCWTPGWQ PGRPVPLPQLWPWRGLSISGSM PLGEGLEDGSDPMTSPCCLPGT
4129	34497	A	4170	1	732	SLTQAGTVSLGLDAEGQEVFVP FSAVLPMVAPNDLVFDGWDISS LNLAEMRRRAKVLDWGLQEQ LWPHMEALRPRPSVYIPEFIAA NQSARADNLIPGSRAQQLEQIR RDIRDFRSSAGLDKVIVLWTAN TERFCEVIPGLNDTAENLLRTIE LGLVSPSTLFAVASILGGLCLS FNGSPQNTLVPGALELAWQHR VFVGGDDFKSGQTKVKSVLVD FLIGFRLQRP/VSIVSYNHLGNN
4130	34498	A	4171	1	908	MEKAPPQTQHEGLKSKEHLPE QTDEGKTEYRRVPSLRAVVLFR QRSCIENILRACVGLPPQNHML LEHKMERPGPSLKRVPVAAT YPMLNKKGPLVWEVSPATLFA VASILEGCAFLNGSPQNTLVPG ALELAWQHRVFVGGDDFKSGQ TKVKSVLVDFLIGSGLKTMSIV SYNHLG\NNDGENLSAPLQFRS KEV\SRSNVDDMVA\SNP\ML YTPGEEDHCRMGRNLPE*GSS
4131	34499	A	4172	85	529	ECGARPGSSTRPPARLSPLFCS AIRAALKTRPAPALACTWRTG* RASLPTTRCAGSGLGTCTAEGS EGCSPGPLTGTG/RQEACPGT APAGSPSCLHPRGRPRPCPPGTL APRMSCPWPRSPPLTRYLPSGE NLQSKLESLNTSEKF
4132	34500	C	4173	215	324	

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4133	34501	A	4174	2	505	YKCEVCDKVFNQ*FLVCHNR CHTGKKPYSCYECGKTFSQTSS FTCYRRLHTGGKPYKCSEHNK TFG*NSALVIHKAIHTGENPCKC NECGKVFNQKAHLARHRLHT REKPYKCEECEKVFSRKSHLER/ HKLKRGGVALV/C*ECPTVYQN TSCLRSLSCSYPMSLNG
4134	34502	A	4175	1	6192	
4135	34503	A	4176	2	3389	
4136	34504	A	4177	3	875	GEEAALSLCMHSTDDATRLGA RDTEPLWHVPAQ/ARLSAIGS SGNKHPSR/QDAAGKDSPNRHS K\GSKPSAGSLRLSSREGDRTA WTGPRGAVEQEVTPDLC*GR GQQGLLVGWT**EQKRGQGKP QYSSSHSSNTLSSN/ASSSHSDD RWFDPLDPL/EPEQDPLS/KGCM SLAK/APRPAKPHKPPGSMGLC/ GGGREAAGRSHHADRR/REVSP APAVAGQSKGYR/PKLYSSGSS TPTGLAGG/SRDPPRQPSTLWH RTWYL/YHTASAAVHRGLCRE LEQADQIPPSWYGRPMGNS
4137	34505	B	4178	108	318	
4138	34506	A	4179	103	540	RRGCESHKTLRRGTSWGLDAR GGGPGPGQVSAGRDGAEVWLS TCDRGHALSGSVEELLFLQN/G ARTER*EGPGEWPRPPPGGLASP ALWRFWAEQVGGSFQELESPP CRTARGSSRTWGSILQNSSWLF QDLGLHLAEGCFLETP
4139	34507	A	4180	33	896	KITRHCTAPGKIRIVPKESQEST PQQDGAPGPGRATSCSARWSPR SWKSHELFCKMEPQVLEEPRA VLQDGAPGPGRATSCSARKGR GPEKPVQGLPN/GSVRAHSGGR AAPQSPRGHGPGRG*TAAPLP HLCPLTPVLLQG*GPD*WPLGW ATMRPLPLRAQPAPPPHWML LTPSAPPPGTGKPGGGRGQTSG SCVPATDPHCRLSAPSPGKLGPP CDFLEPP*QRTTNWGSSEAGSP KSRCPRGHVPSGGSGKGIFLSL HFPGAPQSLEFPGSQPHGLIGAS
4140	34508	B	4181	1	625	

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4141	34509	A	4182	160	1149	FASERMKVEPWRA GPGRRAWS EGAGQAPQKRARAGAEPQLPA TPALPGGKMVARRTKLA\RGTR RT\YPEPTV\YAAIPIKFSEKQQA SHYLYVRAHGVRQGKSTWPQ KRTLFLVNLNPPYCTEESLSRLLS TCGLVQSVELQEKPDLAESPKE SRSKFFHPKPVPGFQVAYVVFQ KPSGVSAALALKGPLLVSTESH PVKSGIHKWISDYADSVDPDEA LRVEVDTFMEAYDQKIAEEEA KAKEEEGV PDEEGWVKVTRRG RR\LCSPGLRQPACGCWRGRDG SAA\KRAAQLRLAASREQDGA SSAA\RK KFEEDKQRIELLRAQR KFRPY
4142	34510	A	4183	2	361	GTMVARRTKLA\RGTRRTGIPS PPC*A\AIPIMCSEKQQASHYLY GRAHGIQQGKSTWPHKRTIFA FNGPPYCSEQESLSCLQSTCGL VQSVKLKEKLELGWESRSKFFH PKPVPVTEEQ
4143	34511	A	4184	917	1128	
4144	34512	A	4185	1	660	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCNNAKYH KTQSPPEDELYGQ/C/SWRKNA/ CSFTSTTQEAHKN/TSHLYGFN WNHCGEMVPACKRHFIQDTCL YE*PPNLGPW\RRYA WLPGIQE LAEELNFP GVSAGSNPSSSIQG WVPGILEPEPFFSTKISQVDQSW RKEWVLNVPLCKEDCEQWWE DCRTSYTCKSNHGKGNWWTSG SNKCQVAAA
4145	34513	A	4186	216	781	MDMAWQMMQLLLLALVTAA GSAQPR\SARA\RTDLLNVCMN AKHHKTQSPPEDEAVWPDP/W MCKGSCRKTKSWNI/HRKSKCE VGLA/WEACSVSAGTGRGPGC GRWVGAPQGP/CPRKCSSG*PT W/VQRSQNMEEMAVVNQSWR KERILNVPLCKEDCERWWEDC RTSYTCKSNWHKGNWWTAPS AVCDPLL

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4146	34514	A	4187	3	625	QCRPWWRKNACCSTNTSQEAHK DVSYLRFNWNHCG\KMAPDC KRHFHPTPALYE/CAPHNLGA WDPAGWIQSWRKERVNLNPLC KEDCEQWWEDCRTSYTCKSN WHKGWNWTSGFNK\CAVGAA CPTF\HFYFPTPTVLCNEIWTSH YKVSNYSRGSGRCIQMWFDAS PGATPIEEV\ARFYVAAMSGAG PWAAWPFLSLALMLLWLLS
4147	34515	A	4188	1	268	EQGRH/GSSTPVGPRGGPRGAE HAPKHQCGCDRAGPQVGMDQ RRRDPPRAPAAPRPWCGQRAA LSSLGGSHLCDDA*VQPSAGLG KVLKF
4148	34516	A	4189	2	1632	WKRCPLPRAAATFPSGSGAG GARREAGGRAPTPGPASPTAR GHARNSPAPARTAGRTGSAGA WQTPCPAPLFPMSAGLPAACH WNPV*LRALKTG/LEGVLGGS DTQHNRTDGLAPNAACVYT PKINGNRHPNTCTKMFIVSLDA KGKKWKQPTVHQQRKRETCG LHPRKCLQYTPS*WSTTTGILPS RTPRISCVQFVKKKLQAGLLG HPGACLLCTLP*PAGVGTFLLP RGC*GVVH*LEHTTCG
4149	34517	A	4190	2	87	
4150	34518	A	4191	3	291	
4151	34519	A	4192	112	286	AWLLWLTSPLWGSYALALLA NKPAL*SLLLRYTLLPPHHQC EKVPRWNEPQPTLFP
4152	34520	A	4193	1	933	
4153	34521	B	4194	1	999	
4154	34522	A	4195	135	1160	VWALVRSTLELFHTDDEEEGE YDEVTEEVTEQVYLPAAKAKVA QEEVHPYPSAPPHYFYFEEKW PDPPDLSFLEDTGRKVVPVTE QHLELLSVLFRQEFSLDERD DAVEQLRGVCIRAWKITSGGE QYPSFSAVKQGPKELYADFIW NLLRQESLKKVISDSAAQDIVL QLLAFGNVNLDCQAALRPIRGK AHLVDYIKACDGIGAKQDSERF AFTIPVVNNLQPAKHFYFTDG SSNGKASYSGSKGQNQQPIWIL SRHLKPYHEPDAKEEIPGG/CPR TPWLQPCRD*C*GGP*/PVTSNT R*TQPPTWGQIKKLSQMVEENL RKAGQLVTMTVYWN

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4155	34523	A	4196	502	578	LV*EDCIAERA EVL RNESYGIID WSP*GMFSLNCTSQSACHGHT MFSW
4156	34524	A	4197	2	408	
4157	34525	A	4198	3	853	LLKVIMSAKIFTKKNENSTERL CGDGEKRGPDFRTERS VWLLR LEEAVAMVQRGSRAPE SRVVA QVLTL LDGASGDREVV VVGAT NRPDALDPALRRPGRFDRE VVI GTPTLKQRKEILQVITSKMPISS HVDLGLLAEMTVGYVGADLTA LCREAAMHALLHSEKNQDN PV IDEIDFLEAFKNIQPS/LVFEASL GLMGIKPVDWEEIGGLEDVKPE VKTAH/WSLRQKSGHC/RSCAR LPTGLLATLGSGSGSGRATEAV SGPAG*KRASIGGSSQRPFRFPT
4158	34526	A	4199	266	370	AERINSITVFSETLKRFLQASGK *FHRDIHNSRN
4159	34527	A	4200	1	1780	MGDVNQSVASDFILVGLFSHSG SRQLLFSLVAVMFVIGLLGNTV LLFLIRVDSRLHTPMYFLLSQLS LFDIGCPMVTIPKMASDFLRGE GATSYGGGAAQIFFLTLMGVA EGVLLVLM SYDRYVAVCQPLQ YPVLMRRQVCLMMGSSWVV GVLNASIQTSITLHFPYCASRIV DHFFCEVPALLKLSCADTCAYE MALSTSGVLILMLPLSLIATSYG HVLQAVLSMRSEEARHKAVTT CSSHITVVGLFYGA AVFMYMV PCAYHSPQQDNVVS LFYSLVTP TLNPLIYSLRNPEERSHRGVKL NECNQCFKVFSTKSNLTQHKRI HTGEKPYDCSQCGKSFSSRSYL TIHKRIHNGEKPYECNHCGKAF SDPSSLRLHLRIHTGEKPYECNQ CFHVFR TSCNLKSHKRIHTGEN HHECNQCGKAFSTRSSLTG HNS IHTGEKPYECHDCGKTFRKSSY LTQHVRTHTGEKPYECNECGK SFSSSFSLTVHKRIHTGEKPYEC SDCGKAFNNLSAVKKHLRTH T GEKPYECNHCGKSFTSNSYLSV HKRIHNRWI*/YYCRNFWRKAL IDLSSLR*FERAHTGYISYLLQH
4160	34528	C	4201	18	182	
4161	34529	A	4202	1	389	
4162	34530	C	4203	114	548	

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4163	34531	A	4204	122	735	LRAQQQHN*VLT LHKPACTLST TS*K*LHKIRK*LWHLRDRAPFI FTSEMEYFITEGGK/NPQHFDQF VELCCRAYNIIRKHSQLLLNLLE MNSYNGYVGLLHNILQLEREG LATKEELQQNFPLSVSLPFDQS INQISEHRS LIFNGQYPYGSCWF RQAVCKLIQKYAGEWGWIA ELRAEIDLNVLFKFTIQVLSWKV QASLQ
4164	34532	A	4205	139	4496	KMAYSWQTDPNPNESHEKQYE HQEFLFVNQPHSSSQVSLGFDQI VDEISGKIPHYESEIDENTFFVPT APKWDSTGHSLNEAHQISLNEF TSKSRELSWHQVSKAPAIGFSPS VLPKPQNTNKECSWGSPIGKHH GADDSRFSILAPSFTSLDKINLE KELENENHNYHIGFESSIPTNS SFSSDFMPKEENKRS GHVNIVE PSLMLLKGS LQPGMWESTWQK NIESIGCSIQ LVEVPQSSNTSLAS FCNKVKK
4165	34533	A	4206	1	3150	MEKPRPLEAPSAWPQDDVQCG VTVGMDGAAVRANRTPWPQD LEQTKWIEIKKSAFTWSSQLSL NRGFLTCKDENNNAGLLRVSS YSSREDQLKNIASDSL FMLPGG LCQSPTGTSHCSNQMETQGQGS PGGAVRGDKALGPEKARQGCG MNGSGKYCKFRVLAIQ GKPEC LATLMQPD LGDSPGLREMN VV EHLRASFPVEQWYWRGGQRGE AEGARSSKAENNTSLICNFR LD YAPIEKQWDLHFADYFAEDLK
4166	34534	A	4207	1	1203	

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4167	34535	A	4208	1	1470	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLSKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGAL TRSV\EYD\AAGR\IRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHAYNAQGL ANRCIPDSLPAVEWLTYGSGYL AGMKLGDTPLEVYTRDRHLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHANFAL
4168	34536	A	4209	757	907	RRYCRITVRWQSM/WADNRIA VDAHYPYR*CRS\GRVTEKND\ LIPKG\VRTDDERTHRYHYDSQ HRLVHYTRTQYAEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDRL TTIQNDRTRIQTIIYQPGSFTPLIR VETATAVMDRILKDHQIVVDIP HGEAWLRDDEERPMLIAGGTG FSYARSILLTALARNPNRDITIY WGGREEQHLYDLCELEALSLK HPGLQVVPVVEQPEAGWRGRT GTVLTAVLQDHGTAEHDIYIA GRFEMAKIARDLFCSEARNED RLFGDAFAFI
4169	34537	B	4210	1	3258	

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4170	34538	A	4211	281	1571	CQCPGAACPTTSCRVIPHW\Y DEADRLT/HRTVN\GETAERWQ YDER/GWLT\DISHISEGHRVA/V HYRYDEKGRLTGERQT/VHHPQ TEALLWQHETRH/AYNAQGLA NRCIPDSL/PAVEWLTYGSGYL AGMK/LGDT/PAANLDIRIPYAT DPA/GNRLPDPELHPDSTLSM/W ADNRIARDAHYLYRY/DRHGRL TEKTDLIPEGV/IRTD\DERTHRY HYDSQ/HRLVHYTRTQYAEPLV E/SRYLYDPLGRRVAKRK/DRTR IQTMYQPGSFTPL/IRVETATGE QAKTQR/RQLADTLQQSDGED GGS\VVF\PAVLVQML\DR\LESE SSADRVRSFISLANQSKCVEHA Y*RWQCHLGVCWSSSHQIPAV PLTGSVTRWHCHLASSEAGSV AWLPHLSEGHSNRTSSPELLRS RMCAWHTLSAQSVHLVSLYL EILALMNSINSL
4171	34539	A	4212	311	788	
4172	34540	A	4213	29	395	RIFHSV\GVAAHKGGVYKTSVS VHL\AQDVAEIT/LLEGNDPQGT VS*YQGPGR\TLIPLEAALRNIAH SLSIPPKIFAAPT\LRHYFALFFC GHSLFAPHIELLEAGTVLQLPQ GPWSSPTSF
4173	34541	A	4214	1	1033	MKMPEAIATKEKIDKWDLIKIK SFFSTPKETINRVNRHHTEWEDI SAIHLSDKGPISYIYKNL\TRFTR KKQPHYKVGKGNEQTRILESH HLLKGLASTPFDSEGVRTERRD IHKDGI\LTQWLLTSYSARKLGLK STGHAGGIH\NWRIAGQGLSFEQ MLKEMGTGLVVP\GTAENARSC IRAYFYDIHETLCRQEEMALSV VDDHVREKLIWLRQH\QEDMTI LLSEVSAACLHCEKTLQ\QDDCR VVLAKQEITRLLET\LKQ\QQQF TEVADHIQLDASIPVTFTKDNR VHIG\PKM\EIRVVTLGIGMGAG KNLLSLF*V*NRVEFHGSPFPTI WFLTWETVGFLK
4174	34542	B	4215	414	1022	

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4175	34543	A	4216	896	1626	NATTIRYEHQRLKAAQYLHQ QGITRCNSSSTLTSAAPGRVDS PTSMIVAPALIIRFACFTASISEL CVPPSEKESGVTLRIPITHLMRE LTCRLIRDKSATVTGSHTLVVA RHCCYAAPGGCCLLANWLKPG LFGPIGVLSRRGTSVILPIGGFY QWNPMICPNGVVPMQHG*RRG LAQERPLEEWLPVCRDMLNAF FLPDAETEAAMTLIEQQWQAI AEGPGAQYGDVPLSLRDEL AQRLDQERISQRFAGPVNICTL MPMRSIPFKVVCLLGMNDGVY PRQLAPLGFDLMSQKPKRGDRS RRDDDRYLFLEALISAQQKLYI SYIGRSIQDNSEFSPVLVQELI DYIGQSHYLPGDEALNCDESEA RVKAHLTCLHTRMPFDPQNYQ PGERQSYAREWLPAASQAGKA HSEFVQPLPFTLPETVPLKRYN DSVRAPTCAESRAIFTSTRNNTL QLFFNANFRPWARGLATNVN DRRASVDHQIRMFHRIYQVRM RATIRKGIIRDVEDPHYSSDAG TYLSPNSRQISNGNWQSHIGRSP SLLLCRTWGLLFTGKLVETRFI WPNRGVIPTGNERYIAHRRFLP MEPDDMPQWRCPHATWLAEA KMFDSLAKAGKYLGAQAKLMI GMPDYDNYVEHMRVNHDPQT PMTYEEFFRERQDARYGGKGG
4176	34544	A	4217	838	1575	CFFLSPSPSSPPSPNRSQTTEE TKRQE/ERERKREEEKKGR KETKKRRNRQEGKQHRKEEKE GEKQTKQRTETERETKRRRENE QAKAHKGTRKRKEEQKKAKA ARRRTHKRQNPSRGREGTHPK QRQGKEE/VNRQNKEEAKQKR EEAGRTRR/EDRGRKDDKERR QQQTEKKAKPKAEHQERTDT TTKKARQREGRPSERRRRERE/ MSKHDPQNRAEKTNEEKEEGR QHER*TQKSSTGI

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4177	34545	A	4218	1	692	MNALHAEALEMTSQFDQELAA KFEADHEMALLMNKDFDRDRE EQRRLAEQARREHEERIKREAA EQARRDAEAKHKAIEAAARR EAEEKARAELAERQRIEAEQRA EREKKETEERARREKEEAVAAE RRRQEEAEAAARLVEEQRKAE EARRAADKEHRRTVNRR/GLRR SDCSGHPRRIRTESSAGDRWRQ SAGRAHQILRQT*THTSLTTAS KNGAGLSSNSPTRKRS
4178	34546	A	4219	3	1120	
4179	34547	A	4220	1	831	MVKARKIMETPQPAWEMRVRI CTVDWSKLNPIYIPDDFLIKSEK KYDHPILVDESNLRVVYAPSR YFASEPKADVSLILRNPKAMDS ARNQALLEGYFSFTATEDQLEQ AKSWYNQMMD/SPEKGKAFEH GNMPA\QMLLQVPYFLREERE H*IIITPILHMRKQEQSG*/RNLP KAAQLSMMQDLQTLMAASY CSELGHVATQFQGM LACTRNP NSWDRNSETSGKAEGFIPMQLG DVADPSVRCSSVSSLWGHSSPK LLRSVCMANRICVKLQRWT
4180	34548	A	4221	1	1503	
4181	34549	A	4222	1	1113	
4182	34550	B	4223	1	760	
4183	34551	B	4224	1	1755	
4184	34552	C	4225	1	4215	
4185	34553	A	4226	1	3240	
4186	34554	A	4227	1989	2144	
4187	34555	A	4228	1	1203	
4188	34556	A	4229	1	4767	
4189	34557	A	4230	31	512	EYRKSPDIRPVIQHGEEAEITH HFR*QELADKTLIFEITHREMQR FQPVGTGDIREPVFVFFRWRLT NPFNILEHGEPEGIRVDAAVPR AVIGGLEDHIGVAVQKLQHKTF RYFPFIQMVKDGVPVPEGRPAF VHHLSLFLRIKILAHLTHTQDF
4190	34558	A	4231	369	918	RPGMSNPWRDLFRTGVDPTND RLSALVEI/YRMMRPGEPTREA AE/SLFENLFFSEDRLSA/VG RMKFNRSLREEIE/GSGILSKD DIIDVMKKL/IDIRNG/KGEVDDI DHLG/NRRIRSVGEMAENQFRV /GLVRCTGTVPFLHQKCEYH L/PQRPVASTLSRYF*HFRLRNF SMPRANEIKKGMV

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4191	34559	A	4232	3	1012	SVVLKIVERVDGYFSPPLFLGA AFGSHVRSRALPDPCVLFRTI YLCVLASVARTFSPLLPVSRKK HITPLGGFQLHETHLCLQDCRTI ILRPRLGEFGNKFSQLVDTIDLH \\NQHGLAHL*KESARGQYSLLL LGMVSLCALILILWRVVYRSVT CPLADQTQALHRLLDGDIVSPF PETAGVRELDITIGRLMDAFRSN VHALNRHREQLAAQVKARTAE LQELVIEHRQARAEAEKASQAK SAFLAAMSHEIRTPLYGILGTA QLLADNPALNAQRDDLRAITDS GESLLTILNDILDYSAIEAGG\K NVSQSYVARLEPVAAASGWHK YPWLN
4192	34560	A	4233	1	502	
4193	34561	A	4234	1	653	
4194	34562	A	4235	2	300	YALATPPLSV/INQWQLALDKG QLPTF/VAGLAPQHPQYAAMHE SYWPYSALR/EILQRTGMLDGG PKITL/PGDDTPTDAVVSPSAVT NSHGR*VPTLGGVWGL
4195	34563	C	4236	40	105	
4196	34564	A	4237	355	526	
4197	34565	A	4238	116	949	RPGTGRC SAVQLPVLLLRGPHS SHTVGTH/MVDLDSGQLCVYP GNSDEMPAATQARERLLADT AKKKAQIAELQSFSRFSANA* KSRQATSRARQIDKIKLEEVKA SSRQNPFIREFQDKKLFRNALE VEGLTKGFDNGPLFKTLNLVLA EVGENLPVLGTNGVGKSTLAK TLVGDLHPDSGTVKWSENARI GYAQDHEYEFENDLPVFWEWM SQWKQEGDDEQAVRSILGRLLF SQGDIKKPAKVLSGGEKGRML FGKLMMQKPNILIMDEPPTH
4198	34566	A	4239	1	319	MVKKMARAPMILALANPEPEI LACRHGRKEVRPDAIIC\TPGRS DYPNQSETNVL\CFPANVHRIPQ AASHLRAHQSRIPISLMSISAKIL TYLLANQIQFLVKQH
4199	34567	B	4240	263	1390	
4200	34568	A	4241	1	323	
4201	34569	A	4242	3	1855	

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4202	34570	A	4243	2	964	LLKHGVSLEYIQDKEGLSALDLV MKDRPTHVVFKNTPDPTDVYTW GDNTNFTLGHGGSQNSKHPEL VDLFSRSGIYIKQVVLCKFHSVF LSQKGQVYTWGHGPG\GRLGT WEMNRHAWVPRLVGRD*MVII VSPSWPAAKDHTVVLTEDGCV YTFGLNIFHQLGIIPPPSSCNVPR QGLHNRQNRYPVPGSAGPTS MEPSKIRPTGLKFSLTQQQSEI DLGCSSLCWDYRREPLRLAYW FIKKDIAKDTDEETRRHGVSLYI QDKEGLSALDLVMKDRPTHVV FKNTGSLQFQSIPSCRESQILSEK QGDLFREEPMFGS
4203	34571	A	4244	1	725	FRVDPRVRKHFGFLFYAMGIVL MMEGVLSAC*HVCNPNYSNFQF DTSFMYMIAGLCMLKLYQTRH PDINASAYSAYASFAVVMVTV LGVVFGKNDVWFVWIFSAIHV LASLALSTQIYYMGRFKIDLFIG RRAAMVFYTDICQCSRPLYM DRMVLLVVGNLVNWFSALFGL IYRPRDFASYMLGIFICNLLLYL AFYIIMKLRSS*KVLPVPLFCIV ATAGMWAC\ALYFFFQNLSSW
4204	34572	A	4245	1	833	MKPVVWATLLWMLLVPRLG AARKGSPPEASFYGTFFPLGFS WVGSSAYQTEGAWDQDGKG PSIWDVFTHSGKGKVLGNETA DVACDGYKQVEDIILLRELHV NHYRFSLSWPRLLPTGIRAEQV NKKGIEFYSDLIDALLSSNITPIV TLHHWDLPQLLQVKYGGWQN VSMANYFRDYANLCFEAFGDR VKHWITFSDPRMAEKGYETG HHAPGLKLRGTGLYKAAHHII/ KAHTL*VCFHAADKGIPETEEK RRLNWTYSSTWLGRFHNHGRG
4205	34573	A	4246	1	672	GTQNAVNG/VIIFLSWGDAVKS FWIYRGGRKREGPLFHA*Q\FLI YTIHRAVGSIIINYVIANYSKLKFI TPGVIDFICTSLIAGILTIKLFLLI NQFEKQQIKKGRDITSARIMSRI IKITIIVGLVLLYGEHFGMSLSG LLTFGGIGGLAVGMAGKDILSN FFSGIMLYFDRPFSIGDWIRSPD RNIEGTVAEIGWRITKITTFDNR PLYVPNSLFSSISVENPG

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4206	34574	A	4247	1	347	PLRP\GQPGPGGAGT/RALRAP LPSSSELCYGPQPGRWPRCPQ FPSLPPHSS*LLHTGHWPCTLGY CFIPILRAAPPLPCKCASPVL\SC TYPLPAAPSLPVLVHTSIKCF HLQ
4207	34575	A	4248	43	446	VLPAVPRPGQ/PPCVPAVQAPE PPRPSPGWSQATGSPGAGAAP SWR\GLPAVPGHTAGVLGP GQRQPGPGGAGTQLCGPHLFL RLLNVAYGPGQPAL/RNVPLQT APALTPSPQHLLCPFLSTHLLNA SVFIC
4208	34576	A	4249	1	1521	RIPESRLPTTAFVQAPWARSGSS GLRRWEKHAGQQVGWWARGP GVRGRQAAGGGAAALTCRGG AGSAVRSCAGLPSLASGSAGCR LHPSYSFGFKVGS/PTVPAALSS *STS/RGREHGGVTVVPMVTQN PRS\PDGPARVEDCEAIA*GTG WL\QQGIGTRPPGTGLGRAR\G APAVPQWNPVKSCQGP LPSHGSSGEAGRW/RGLQITP QL/PEVTHRRVLPGDHPATEA\G GFGTG*PGLPGRVPGPVGGTY QAKALTPLPVGLLAPASCAQC LQQSADGPGATGHL*ELAESQC RRQPTG\PPGQLAVSGWATVP VPAAPRPFPAQQA/SVPTPSY WA/GSPGAAWPESHRR*ACD WAW**VLPAVPRPGQ/PPCVPA PVQ\PQSHRGAHDGARLY*GL PQAEQLHPGGGLPAVPGHTAG VLGP CGPHLFLCFLNVAYGPGQGR WPRCPQFPFLPPILSWNIFGVGT QKKKKKNQSFLKKKKKK
4209	34577	A	4250	167	582	RSLGLAVTEMVPWVRTMGQK LKQRLRLDVGREICRQYPLFCF LLLCLSAASLLNR*RRSAEPGR RL/SL/LKVQTPGPCCLTVRRPRS CGTG GASRPEAQAGGVGLIASFPEAS SPELPFSHP

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4210	34578	A	4251	402	1465	DLILSHPTAWFTIKYKPKQLGL QELFPQGHSCAVCGKVKCKRH RPSLLENYQPWLDLKISSKVE\ ESLSKDLELVLENFVYPWYRD VTDDSFVDELRLTRFFASVLI RRIHKVDIPSIYNQETIKSSNESI *KWIVKARQKVKNTEFLQQA LEEYGPPELHVALRSRRDELHYL RKLTLLFPYILPPKATDCRSLT LLIREILSGSVFLPSLDFLADPDT VNHLLIIFIDDSPAEKATEPASTL VPFLQKFAEPRNKKPSVLKLEL KQIREQQDLLFRFMNFKQEGA VHVLAQFCLTVEEFNDRILRP SNG*NAVSS/WKNCRRFIKHTV WMKVLTCLDLPSLVEEIPR
4211	34579	A	4252	1	1232	FPGRRFRLVVRLRGAEEASERQ VYSVTMKLLLHPAFQSCLLLT LLGLWRTTPEAHASSPGAPAS AASF*DLIHRYGEGDSLTLQQ LKALLNHLVDVGVRGNVSQHV QGHRNPTTCFSSGDLFTAHNFS EQLRIGSSELHEFCPTILQQLDS RACTSENQENEENEQTEGRPS AVEVWGFGLSVSLINLASLLG VLVLPCTEKAFFSRVLTIFYALS IGTLLSNALFQLIPERSYKNKAQ VDSLPIFLAQAGMLLWRVRIR RRVVDPIRESWMLPFTKIPLWG YGLLCVTVISLCSLLGASVVPF MKKTFYKRLLLYFIALAIGTLY SNALFQLIPENRRKWWQPVHN TFGGSTAWHTDKSIEQSIDTLFD EVKKESEKETPSLQIGDLGPQES LKTFNNTNSPHH
4212	34580	A	4253	3	924	VGACTAAARPLPIPLQPIHHR GEKSQLWAHSGSSWGFLAVAA VPPSHLCPPQLSRGWKRPP/PLA SAGVLPGCCCCACLVSPSLAQ AG/LGPKPAAPLPGPWVSVAP CSRPGPCPGTRSPA/P*GHPAMG R\GVHEPRVGPAPPEKAIITETG AGLAERRGQGLGGGSSFRSAEP QGCRSLGPQSPGGDPAHTILRPP SQNGDCAEMHACRLHPAILGT HGTGGLAAQSHAPRALLPSCPS SQPADGWCSLHLCLPGLLLAP RIHGPSTREGGPGHGTGPPTNP ASSGATRGRVRVPSVRSPTL

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4213	34581	A	4254	1	318	VADPVGAARAGGQPLAGRVW PRAGGGHSPRVLGAAGPGPHV CTLRPGTAIRTEPGAPLACAR AWPGSSPAG/PECLPTSC*P*EG QEPSSHVASLPWGPVGGETQ
4214	34582	A	4255	1	718	FFFFFFFSLCHLYWVSPTPGPHG KLANMANWAPWPS*GLSKLVG KHSCPAG*LPGHARAQASGAP G/ISPDSSAREA*ECT/PCGPGPA APSTRGECPPSSSRPHS/SQQDP GRCSFAPAVPQDAGGQGHWCC APATGHSAPRGCPPARAAPTGS ATPAPPPAACAASSLMSVAPS R*TTGIASSGTSIPETKHQGTGP TAPAGT/GPGGSTGPKA/PGPAP AHPTRLAGTSGHTAPPTCPPAV
4215	34583	A	4256	702	1026	RSGRTQRAAGVSGSALHQVQS WP\HLKISADQRAGLLF*EHPFP PSASSGCLDVSISSYPVGS*FIN GMARANGRWKTFTGLHSGKPL GFSDAFCQHNLILCWKTW
4216	34584	A	4257	170	1049	RGSGCSAELVPSSRWRPGSRAG AAAGTETPG*PRVYVPAGNGE AGGPGAAWARRAAALPGTAA GPPRPAARPGAAPARGGPAPGA PAQALPR/TPTWPAAR*AQRAP SPPSWGS\AQPGHPGDLAAGVG RGAGGGHSHRRHHHVRSLAD LLQLPGAAEGAGDRGHLPGPD/ GERS*AASSFSAAGRAAGTASC CSAGGTPPSPCTILSTSSSLAH VASSS/RRRAEGDTKVS/RGRAE GQDSETGREPGVLHRGSGRTQ RAAGVSGS/RSAPSPVVATTSR LLTSVQGCFSENILSP
4217	34585	A	4258	178	556	QSPQEHFHPECGRRDILCQVRQ EIRWPNPGEVHHLGLEICPVWI LQLHLALRTAPEHPLQVHRPG GGAV*RGVPPPLRLQACDGPE VPAAGRPRPARSSPGQWPP*/PA AVAPPVTERPPTPSAA

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4218	34586	A	4259	5	1044	TGRILDGWHWAKELRLDCPLG DSRRPPFSRVSTEGSPAFLALRL PNVTAGS*EVSMLASTETPLVIT RSPG\GHDGPAPRGAAASPA GSPAP*QKSPRPLSAAAPLLAS DPAPPRAAAPADTESSVQPPA APHAGPWT\PSAPGPLDVHSPPP \PSRGP\QSSAEPHNRPSGAT RPRP\PPRGAAASPAGSPAP*QK SPRPLSAAAPLLASDPAPPRAA APPADTESSVQPPAAPHAGPWT LERSWAP*RSLPTIPVADPLCR APLSHRYP*GDCQRSGLCHTSP GRASHLPGPGAHKRTPHACWL PLECHRRSPHP*THPSG*PGPSP QSFFPEFLGSGP
4219	34587	A	4260	2	576	CLVNSTTRRSFQLRLVPVPKFQ PPHMTVR*LFNFGRLTATTFS/ LRKSYAVREAYELQNCPPPPF QNGYMINSDYSVGQSVSFECYP GYILIGHPVLTQCQHGIRNWNV PFPRCDAPCGYNVTSQNGTIYS PGFPDEYPILKDCIWLITVPPGH GVYINFLLHTEAVNDHIAVW YENLSSQNICDCDQQF
4220	34588	A	4261	1	837	MWAGNAWRAALSGVPCGRSA QSVLAQLRGILEGELEGIRGAG TWKSERVITSRQGPPIHVDGVS GGILNLTSVRFIRGTQSIHKNLE AKIARFHQREDAILYPSCCDAN AGLFEVLLRPEDAVLSDELNCA SIHGICLCKAHKYHYCHLDVA YLETKLQEAQKHRLFLVATDG AFSMDGDIVPLQKICRLASRYG ALVFVDECHATGFLGLTGQGT DELLGVMGQVTIINSTLGKALG GASGGYTTGPGPLVSL/RAQP YLFSNSLPPAVVGCTSKAL

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4221	34589	A	4262	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTLYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGN'TIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
4222	34590	A	4263	1	1989	
4223	34591	A	4264	1	1104	
4224	34592	A	4265	1	879	
4225	34593	A	4266	1	1659	
4226	34594	B	4267	1	1500	
4227	34595	B	4268	1	1962	
4228	34596	B	4269	1	1716	
4229	34597	A	4270	1	1152	
4230	34598	A	4271	1	4752	
4231	34599	A	4272	1	2790	
4232	34600	A	4273	1	3477	

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4233	34601	A	4274	1	1007	MLDASCHRTSDSKFFSFGVQTG FLTPELAHLVGPCDRDHNSSPA REQNWTENEFDELTEVGFRKW VITNSSELKEHVLTSKEAKNL EKRAIKQEKEIKGIQLGKEEVK LSLFADDMIVYLENPIVSAQNL LKLISKFSKVSGYKINVQKSQA LLYTNNR\SQIMSELPFTIAMKR IKYLG IQLTRDVKDLFKDNYKP LLKEIREDTNKWKNIPCSWLGR INIMKMAILPKAIYRFNAIPIKLL *TFFTELEKTTLNFIWNQKRARI AKTILSKKNKAGGITLPDFKLY HKATVTKTAWYWYQNRIDQ WNRTEASEITPHIYNHLIFDKPE
4234	34602	A	4275	737	2460	RIKYLRIQLTRDVKDLFKENYK SLLNEIKEDTNKWKNIPCSWIG RMNIIKMAI/LPKVIYRFNVIPIK LPMTFFSELEKSTLKFIWNQKR ARIAKTILSQKNKAGGIMLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTEPSEMTPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAIQRQLKLDPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLG NTIQDISMGKDFMSKTPKAMA TKAKMDKWDLIKLSFCTAKE TTIRVNRQPTEWEKNFAIYSSD KGLISRIYKQLKQIYKKKTNNPI KKWAKDMNRHFSKEDVYAAN RHMKKCSSSLAIREMQIKTIMIY HLTPVTMAIIKKSGNNRCWRG CGEMGTLLYCWWDCCLVQPL WKT LWQFLRDLELGIPFDPAIP LLGIYPKDYKSCCYKDTCTPKL ARDDQIHILKQHRRKELETRQK QYRAWYEINPFHSVWPVTAGK SPRHQLPVVWHNPQTSPYLQL QTRDGEESNENNF GSTILASDFF AEIDKLSILQIHMEMEGTQNSQ NNLDKKKTKMEDLHFSISKLLH SYSIQDNVISA
4235	34603	A	4276	3	355	RQPVHLVHELPPQSWGICLNSS EQHGALQHSSLHL/RMCSEPW SADPQ*R*TCRNL*LPVRGPPRR TDLFSVSSKSTLKEWP LLLMIL AELGSYLILSGRREESYFTSLVL ISIGDC
4236	34604	B	4277	78	791	

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4237	34605	A	4278	1	3395	MIISIDTENAFEKIQPFMLKTL NKLIGIDGTYLKHRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV MARVIRQEKEIK GIQLGKEEVKLSLFVDDMIVYL ENPIVSAQNLLKLISNLSKVSGY KINVQKSQAFSYTNNRQTESQI MNGLPFTTASKRIKYLGIQLTR DVKELFKENYKPLLNEKKVDT NKWKNI PCSWIGRINILKMAIL P/KELEKTTLKFIWNQKRACIAK SILSKKNKAGGITLPDFKLYYK ATVTKTAWYQYQNRDIDQWN RTEPSEII\PHIYNHLIFDKPDKN KKWGMGSLFNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI DMGKDFMSKTPKAMATKAKID KWDLTCLRSFCTAKETTIRVNR QPKWEKIFAIYSSDKGLISRIY KELKRIYK/KKNNPIKKWAKD MNRYF*KEDIYAANRHMKKCS SSLAIEMQIKTTMR/YHLTPVR MAIIKSGNNRWEMNNENTWT QEGEHHTLG/HC/WWKARRSRS CLTWMAAGKKRMRKTLQMT
4238	34606	B	4279	1	2011	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4239	34607	A	4280	1	2661	MTMNFVADSHTGRNPLASAAAG AKTGLRPLPRPCGARVWNPPD AGGGGVGSLKTSTPLGPLSAAN SPVHQGSVPQTRARGGGTLFQE VVTSRTLAFRNSLSAFTEVTSG TVSGRKGGRSTHLAGRRVSGG EGSRKAAAAAALAAVAAAPGPV RRCSSQSCFSSSGSSHYSARTSP VRVRPRRSLSSRSAAGNRAEAT ESAMEKTLETVPLERKKREKEQ FRKLFIGGLSFETTEESLRNYYE QWGKLTDCVVMRDPASKRSRG FGFVTFSSMAEVDAAAMAARPH SIDGRVVEPKRAVAREESGKPG AHVTVKKLFVGGIKEDTEEHL RDYFEEYGKIDTIEIITDRQSGK KRGFGFVTFDDHDPVDKIVLQK YHTINGHNAEVRKALSRQEMQ EVQSSRSGRGDGYGSGRGFGD GYNGYGGGPGGNGFGGSPGYG GGRGGYGGGPGYGNQGGGY GGGYDNYGGGNYGSGNYNDF GNYNQPSNYGPMKSGNFGGS RNMGGPYGGGIWKNTSITERK KSRKLDLIQSKKGSRTKEAPQP PVASLCMHLGHWSRLMVSPGA QLTGKNSHGLSVSSVRKSNVGP RRLCAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCTD RPHPFLSRPKPPTQISLVPLKT DGALERMPQQL/HIASS/GAKVP NPSTQTPPVLLAFFYPFNLPP*N
4240	34608	A	4281	1	908	MRKVKGKNRQSFKCLPPPSGA LQAHGAAAPHGSLTLHLHLV PVSSAAMKATGPDNAQSQVSP PGHAPSAEDPTGSRTVSSPCED RPHPFLSWPTWISLALLKTDG ALERMPQQLPSLHPSQGTQSIH PDPSSSTSSFLPFQPPTLKRAAFP CPPSIVNPAVWDTSTPSVAEHH TPIRITLKEPTQFLSQKQYPIQQA ALVGLQPIISHLLASHLLRPTDS PFNTPILPVKKPNGTYRLVQDL RLINQAVLPLVQE/DYSVLLYLP LNVTPGLPPATAFSYPPSPGPVA RARLASRLHSHAA

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4241	34609	A	4282	1	915	MPNYVTFTDTKQLISDTPNNQV PMNRASMAFDAKCLTGCRFDD AIVQFDMTYWPFTVVNDAGRP KVQVEYERDKLLPIGGVFYGS DKDEGNCKSLPWEDCYQCCET SQNVQDFLFLDVTPLSLDIKTA DGVMAVLIKCDATIPTRQTQTF TTYSDKPSM/LIAKDKNLLRKFE LTGVPPAHGHAHQIEVTFDINA KGILNV/TLDDKGHLISKEDIEP MVQETEKYKADEKQRDKVSS KNSLDPYVFNMKATAEDEKLQ VKINNEHKQKILSKCHEIINWL DKNQTAEKEEFEHAQQELEKSS
4242	34610	A	4283	1	994	MHQTKKGNQWHFGMKAHIGV DAKSLTHSLVTRPNEHDLNQ LGNLLHGEEQFVSADAGYQGA PQREELAEVDVDWLIAERPGK VRTLKQHPRKNKTAINIYMKA SIRARVEHPFRIIKRQFGFVKAR YKGLLKNDNQLAMLFTLANLF RADQMIHCTRGEGLITTKIPKAP DNQSYCLPSKNDDSEEDPEMS PMVVTKMKEIAEAYLGKTVTN AVLTVPAYFNDSQRQAT/KKDA RTIAGLNGLRISNEPTAAAIAYG LNQKVGTERNVLIFDLGGSITPR IRTPETGSDDAIIKSILEQAKKEIE SQKGGECDCPCRQSLRPPGPAAN
4243	34611	A	4284	3	677	
4244	34612	A	4285	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKQRLARAEEK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQLVCRKMGPV YCIKKGKARLGRLVHRKTCTTV AFTQVN
4245	34613	A	4286	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARAEEKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIADVDPIELV VFLPALCRKMGPVYCIKKGKAR LGRLVHRKTCTTVAF
4246	34614	C	4287	62	217	

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4247	34615	A	4288	2	801	PKGKKAKGKKVAPAPAVVKK QEAKKVVNPLFEKRPNFGIGQ DIQPKRDLTRFVKWPRYIRLQR QRAILYKRLKVPPAINQFTQAL DRQTATQLLKLAKHYRPETKQ EKKQRLARAEKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVDPIELVVFLPA L\CRKMGVP\YCIK GKARLGR VHRKTCTTVAFTQVNSEDKG\ ALAKLVEAIRTNYNDRYDEIRR HWGGNDLRPK\SVARIAKLEKA KAKELATKLG
4248	34616	B	4289	1	273	
4249	34617	A	4290	1	441	
4250	34618	B	4291	47	482	
4251	34619	A	4292	1	762	
4252	34620	A	4293	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGLTDCVV MRDPNTRSRGFGFVITYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
4253	34621	A	4294	1	1674	
4254	34622	A	4295	1	506	KYHTVNGHNCEVRKALSKQEI ASASCSQRGRSGSGNFGGDRG GGFGGNDNFGRGGNFSGHGGF GGSCCGGGYGGSGDGYNGFGN DASNFGGGGS/YNEFG/NYNNQ SSHFGPLS/GGNFGGRSS/SPLGG APASTYVKGPNSQRTQNEGWF EG*APWRGDGGARGNKGGGA

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4255	34623	A	4296	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRRSIVK VSLLPVIGLKSFLKKPDQLR KLF\GG\LSFETT\DESLEEFPSR QWGKRYTDSVVMRDPNTRSR G\FGFVTYATVEEVDAAMNA RPHKVIEWKELLEPKRA\VSRED SQRPGCPH*LVKKIFVGGIKEDT \EEHHLRDYFEQYGKIEVIEIMT D\RGSGKKRGFAFVTFD\DHD\S VDKIV\QKYHTVNG\HN\CEV* KSPVKSCKMASASSKPKGRSG FWETFGGGSWEVFGGN\DNF GRG\GNFSWSVVAFGGSRG\GG GYG\GSGDG\YNGFGNDG\SNF G\GGG\SYNDFG\NYNNQ\SSNF GPMKGG\NFG\GRSSGPY\GGG QYF\AKPR\NQGGYGGSSSS\SN
4256	34624	A	4297	1	920	DPGDTNPNTASAPNCRSGKGRSS SPEHIPPLEKLEDSMQTNPSTNP EPGRLAEWLDPEERQQSLQFGL QEATSIGKGGQYYIKGTPHGTK ESEQQPSALDLPSPDRAYPNEKE PENQLWRLVIKLIKEAPEKGAY LNVIKAVYDKPTNGEKLRAFPL RTGTKHRCPLSPLLFNILLEVLA RAIRQEKEIKSIQIGKEEVKLSLF ADDIIYLESPKYSSRKLQELIKE FSKVSRYEINVHKSVALLYT\NS NQAENQIKNSASFTIAAKNKKIK YLGIIYLTDAKDGKYNKYKTL MKEIIDDKNKQKYIP
4257	34625	A	4298	1	1194	
4258	34626	A	4299	3	1834	
4259	34627	A	4300	285	502	
4260	34628	B	4301	77	1306	
4261	34629	A	4302	1	354	
4262	34630	A	4303	1	1182	
4263	34631	B	4304	1	1995	
4264	34632	B	4305	1	1518	

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4265	34633	A	4306	1	918	MCPVGPWTHPVVISPVSECIVGI DILGSWQNLHIGSLTDITMVHYI DDMMLIGSSEQEVANSLLLV RHLHARGCKINPTKIQTSTSV KFLEFQWCGVCQDIPSKWVLE QKALQQVQAAVQAAALPLEPYD PADPMVLEVSADGVAVWSL WQAPIARIHGSRNQGVEVEVSP LTNIPSDPLAKFLFPAPSTLCSA GLELLVPEGGTLTPGNTTMIPL NWKLRVPGYFGLLLALSPQA KNGVTVLAVIDPDYQDEITLL FHNGGGEYARNTGDPLRHLL VLPSPMIKVNGK\LQHPNPGRT
4266	34634	B	4307	1	1599	
4267	34635	B	4308	1	1569	
4268	34636	A	4309	3	422	
4269	34637	A	4310	1	1089	
4270	34638	A	4311	2	549	LKMTAMQRPMEKRMMNREIIL KERLSLTGIDIKLKKRSIMKVE SHRGEQISVSSLALQRIKYLGIQI TRDVKDLFKENYKPLLNLKE DTNKWRNVPCPRVGRISIVKM AILPK/ILKKKTTLKFIWNQKRA HIAKTILSKKNKAGGITLPDFKL YYKAT/KTAWCWYQNRDTDQ WNRTKPSEI

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4271	34639	A	4312	371	3036	LIAYQPKKVQDQMQDSQPNSTR VLEVLARAIRQEKEIKGIQLGK/ EEVKLSMFADDITAYLENPIVS APNLLKLISNFSK/VSGYKINVQ KSQAFLYTNKRQTE/QIMSELPF TVASKRIKYLGIKLRRDVKDLF KENYKPLLNEIKEDTNKWKNIP CSWIGRINIVKMTILPKVIYRFN AIPKLPMTFFAELEKTTLKFIW NQKRAHIAKTILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNRIEPIPHICKH LIFDKPDKNKKWGKDSLFNKKW CWENWLAICRKLHLDPFLTPYT KINSRWIKDLNVRHKTIKTLEE NLGNTIQDIGMGKDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIRETLYNDR RIGKLTQTCDETAQPHVCTISR PMLSSPYRSSLTEKWSQDFSKP PYPFLFHKGYLNPREQDKEVLT RAIRQEKERKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNPLK VVSNSFSKVSGYKISVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLRIQLTRDVKDLFKENCKP LLNEIEEDTNKWKNIPCSWIGRI NIVKMAILPKVIYRFNAIPKLP MTFFTIVLEKTTLKFIWNQKRAH
4272	34640	B	4313	1	1995	
4273	34641	A	4314	3	549	
4274	34642	A	4315	3	614	EAYGQTECTGGCTFTLPGDWT S\GQFINILEMCLELSPCKSFSAD SARYVLGHVGVPLACNYVKLE DVADMNYFTVNNEGEVCIKGT NVFKGYLKDPEKTQEALDSDG WLHTGDIGRWLPDIENHNRLIV CTLTNTSWRSHKIIVLKTYQKA DDTKTPKETTFQNMNLFLEKEK RATAVLIRGGVGETSTDLSKKK PAKLLANF
4275	34643	A	4316	1	478	MKLDLHLSPTYTKINSRWIKDLN LRPETIKILEDIIRKTLLDIGLGK DFMIKNPKVNATKTKINKWDLI KLK\NFCTAKEISSREIREPTW EKIFANSASDKGLISRIYKELKQ IRSTLQLLFGISELPASLFLGFGA IMSKSKASLNTSTAILRQLIW

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4276	34644	A	4317	1	1125	MCHGIGAQIIPSHQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGFIENMFF VSANPWVSFTSFDLNVANMDN FFAPVFTMGKYYTQGDKVLMP LAIGGPLES PDRDGGPLESTNR DASPESWSCRKSTPRLVAWVS AAKV FIRD KLMERRNRRTGRT EKARIWEVTDRTVRTWIGEAV AAAAADGGGFRVDLARRSIRK DRNARSQNPVHTEGDMNMNIK KIVKQATVLTFTTAFLAGGATQ AFAKENNQKAYKETYGVS HIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SID\SWKNAGR VF
4277	34645	B	4318	1	1374	
4278	34646	A	4319	1	1293	
4279	34647	A	4320	1	1278	
4280	34648	A	4321	1	1254	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVN GYYCEES\LFNKA\YYGGGTNFF RKESQKLQQSAKKRDAELANG ALGIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNDVTFTYSHFAVPQAK GNNVITSYMTNRGFFEDKKA TFAPSFLMNIKGNKTSVVKNSIL EQGQLTVN
4281	34649	A	4322	1	726	
4282	34650	A	4323	1	1050	

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4283	34651	A	4324	1	1185	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIENND YTLKKVMKPLITSN/TVPQAKG NNVITSYMTNRGFFEDKKATF APSF LMNIKG NKT SVVKNSILE QGQLTVN
4284	34652	B	4325	1	867	
4285	34653	A	4326	1	495	
4286	34654	A	4327	3	1394	GDMNMNIKKIVKQATVLTFTT A/LLAGGATQAFAKENNQKAY KETYG VSHITRHDMLQIPKQQQ NEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYN GYHVV FALAGSPKDADDTSIY MFYQKVGDN SIDSWKNAGR V KDS DKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTGDPLEAETAVINH KKRKNSPRIVQSNDLTEAAAYSL SRDQKRMLYL FVDQIRKSDGTL QEH DGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVV FYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQSYQRTPDFRRRFLQV CVNEING
4287	34655	B	4328	9	1004	
4288	34656	A	4329	1	768	
4289	34657	A	4330	1	1308	
4290	34658	B	4331	58	753	
4291	34659	B	4332	1	409	
4292	34660	B	4333	1	921	
4293	34661	A	4334	1	1026	
4294	34662	B	4335	1	945	

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4295	34663	A	4336	1	528	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFY/Q KDQTQEWS\GSATFTSDGKIRLF YTDYSGKHYGKQSLDTA\Q*N VKSG
4296	34664	A	4337	1	1701	
4297	34665	B	4338	97	1449	
4298	34666	A	4339	1	1581	
4299	34667	B	4340	1	1539	
4300	34668	A	4341	87	1078	SLPNLDNAAICSSSSPTRTR*SL SEGATQ\AFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGPLESPSTHQA EFNPTS CVSSLGTLQGFPAPAWLAL AHP VHPLKHKSGGSNRLSAAIWGIK RKPAR
4301	34669	A	4342	1	1344	
4302	34670	A	4343	1	1713	
4303	34671	A	4344	3	1918	
4304	34672	A	4345	254	1118	RPPAFAKK*PKAYKET/YGVSHI TRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR VFKDS DKFDAN DPILKDQTQEWSGSATFTSDGK IRLFYTDYSGKHYGKQSLTTAQ VNVSKSDDTLKINGVEDHKTIF DGDGKTYQNVQQFIDEGNYTS GDNHTLRDPHYVGGTSWEPGV FSVSCVFFGQQEGV/HG*DEFLD FSYWFQGG*ICLYQKAS*QNTT SYKRYTGS

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4305	34673	A	4346	1	1952	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVFQDHTGTTEEHPQPQERP RTQSFTSAFAERRECIPNVPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRRKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPPTHMEGFEL FHLPLDCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNVVT SYMTRNGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTV
4306	34674	A	4347	1	1029	
4307	34675	A	4348	276	1248	CVWLGCGRGYYPKAYKETVGV SHITRHDMLQIPKQQQNEKYQV PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHGKQSLT TAQQLQLVQFQEVDTDFDFPE EDKKEEFEECLEKFFSTGPARPP TKEKVKRRVLIPEGMPLNHIEY CNHEIMGKNVYKHRWVAEH YFLMQYDELQKICYNEFVPSV IFLRYKSPGEAAGTCHLKQRRW VMPEAAAAPVGTGSRYPLTGQL
4308	34676	A	4349	1	242	MNSIQIPKQQQNEKYQVPQFDQ STIKYIESPKELDVWDSWPLQN ADGTVAEYNGYHVAFALAG/S PKDADDTSIYMFYQKI
4309	34677	B	4350	1	2198	

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4310	34678	A	4351	1	2796	
4311	34679	A	4352	2047	3531	
4312	34680	A	4353	1	3336	
4313	34681	A	4354	1	1409	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGV MARG NAITLPVCGRDVKFTLEVLRGD SVEKTSRVWSGNERDQELLTE DALDDLIPSFLTGTQTPAFGR RVSGVIEIADGSRRRKAAALTE SDYRVLVGELDDQMAALSRL GGATQAFAKENNQK\AYKETY GVSHITRIIDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDGY LLEPDGGALQNFQRYTGIOHVV RIGMAERMWCDNRNRHTVSS SGGNRLPNPGPDRSVRHFPDPR FLCPSCATVTPLELIANKYL SG KIGAKKLRLLIKHV D
4314	34682	A	4355	1	2316	
4315	34683	A	4356	93	924	AQTDAAEKSVSIAQLFQACLSIF SSGDV/AGGATQAFAKENNQK AYKETYGVSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESA KGLDVWDSWPLQNADGTVAE YNGYHVVFALAGSPKDADDTS IYMFYQKVGDN SIDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSNDT LKINGVGKYKTIFDGDGKTYQT VQQFIDEGNYTSGGHHTL\KDP SYNPPLDLSGGNSGYQSQET

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4316	34684	A	4357	1	3118	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNA GRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLARDP\HYVENKG HKYLG FETNTGTENGYQGEESL FNKAYYGGGTNFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGK WYLFTDSRGSK MTIDGINSNDIYMLGSDESPND FGNRHLHKERLA VYRWHASFI CSGNTMPIVLVDWSDIREQKRL MVLRASVALHGRSVTLYEKAF PLSEQCSKKAHDQFLADLASIL PSNTTPLIVSDAGFKVPWYKSV EKLGWYWLSRVRGKVQYADL GAENWKPI SNLHDMSSSHSKTL GYKRLTKSNPISCQILLYKSRSK GRKNQRSTRTHCHHPSPKIYSA SAKEPWVLATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQ
4317	34685	A	4358	1	1326	
4318	34686	A	4359	2140	4390	
4319	34687	B	4360	1	7271	
4320	34688	A	4361	1	1729	
4321	34689	A	4362	5118	5687	
4322	34690	B	4363	1	4726	
4323	34691	B	4364	1	3688	
4324	34692	A	4365	1	1401	
4325	34693	A	4366	1	1932	
4326	34694	A	4367	1	1407	
4327	34695	A	4368	1	1491	
4328	34696	B	4369	1	855	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4329	34697	A	4370	137	1014	ASEGKQMLRDFVTTTRSALKELL KRALNMARNNQYQPLQKHAK L*RPSML*RNCIN*QPGRDT/TN KKENFRPISLMNIDAKILNKILA NRIQQHIKKLIHNDQVGFI QGMQGWFNHKSINIIHHIKRTNDKN HMIISIDAEKAFNKIQQPFMLKT LNKLGIDGTYLKIIRAIYDRPTA NVILNGQKLEAFPFGTGRQGC PLSPLLFNIVLKVLAIRQETEI KGIQLAKEEVKLSLFADDMIVY LENPIISAQNLLKLISNFSK/VSG YKINVQKSQAFLYTINRQTESQI
4330	34698	A	4371	3	1234	
4331	34699	A	4372	1	2850	MGMGPAKPGMGNNLLVCWLQ RPWEKRSIWADEVYRSSRYSHS WLPLSRKGCDFSGTCRQTL SILTQPLRQWGLEGIKKPN SWIIEESVSNGGPPLLIPRQT ASGVDLQQTPTDLQLRVLT VRRKTNKQKGIASSTKRTST PKPHLYVTIIKDQSYIKPQR WGKNIAEKLKILKIRVALSL QRNAAPHQQWNKAGRRMSLM SSQKKASEVIESQMN EIKGEEKFREKRVKRNEQSL QEIWVYVVKRPDLRLIGVPD
4332	34700	B	4373	16	701	
4333	34701	B	4374	1	3743	
4334	34702	A	4375	227	686	KVMLAEYPVFAQLTLTLPSSA SWEPSRGPGRGIRGSCPEWLA SGPG\KAAPGAGVPPPAASFPDP PPRLRAPALAVSRGLRRELPSG LDWTHCLRTLPSLIVQILQQA ALLGLPPAYSDQLQRAGQLHFYS GLIKISLVLTTRLSFWGTTE
4335	34703	A	4376	216	644	VTYSKEKECEVADSVAKTAL EKDGAPRTGDPRPNLGADPPRS LVSSAGPQAVRPVKPARQFPQ PPRYSQGPAAAGEEGRGMRPP GAGRRLPGPPLPGPEASHSGQL PLM/PPGPGPRLGSQEPVSL SRYLQTQARMPGPRP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4336	34704	A	4377	18	1023	QIQHSPLVSPLPSLPPQPLVAEE EPPVA/PWPRRLLPATSTSH/PSH PLTEPVPPT\SGRGCLWTKRQ QKMCRTTYTSVGRK/CTFPIDS GALRLSDGEMRALQTPTGPQST VEGHTHLQSL/PHHDRVATPG TEPGLRAAGNRRIFYPGP/VTSQ VQPQLLCGYGNASRTPAALTPG PAPPTQASLPNCGICPHLQMGR PTSPC/PPEGGHPSSSLYISLSPPP PSAPALRLPPPLP\SAPTAPAL/P/ PAAPSAPALRLRLPCCSFRPR PAAPSAPAPRLPLLVCSFRPC PAAPSAPAGLLLPLLCSSGLSP RLCCPHSSCSDPPRLQRKADSS
4337	34705	B	4378	1	984	
4338	34706	A	4379	332	847	VKLLLQDKEICILCQKTVYPME CLVADKQNFHKSCFARCHHCNS KLSLGNYSLSHGQIYCKPHFKP TFQNPKNYDEFGHKA\HKD RWNWQPKADSVDFIPNEEPN MCKNIAENTLVPGRNEHLDA GNSEGQRNDRKLGGERGKLKV IWPPSKEIPKKTLPFEELKMSK
4339	34707	A	4380	305	505	GNLERMLNLGMVKQKQLPAIM KTQVLML*AINVPAKPLFPQSG GAVRTTHGGKSRLKETGATSD TE
4340	34708	A	4381	56	260	IVKTQSIDG/MGNLRITEKGLKL EGDS/EFLQPLYAKEIQSRPGLG TQEQCQTLSSCSSRQQQHA
4341	34709	A	4382	137	920	
4342	34710	A	4383	532	1680	LLTTRTSFRSENHRHVGLLLVM TDNTRDKEYFGDESKRENEEKT VEKSIGEKQATLTTHANIITIRH CVKPEPDFSDHLNLLLGRADIT GEEMAAQRSSVEKLANGNIAL VDSLRSRSLEEGSDDPHKRLSG AQDIKTTVEEVIADVVEIARELE LEVEPEDVTEFLQAHEKTLTDV ELFLINEQIKWFLEMKSTPRED AVIIAETITKVLEYDINLVTKQQ QGMRLTPILKEVLLWVKCHQ TALHATEKPFIKGRINPCGKIHT CLNLRNCGQLLIREEEEEEDKEE EEQYEEKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEDEEEDKE DEEEDKEKEEEDNKEEEEEED KEKEEEDKE\EKEDKEEEDK

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4343	34711	A	4384	3	495	EDTGTFRIFYESAGAVKKARGF LEFVEDFIQVSKNLIGKVIGKNG KVIQEIVDKSDMVPVRIEGDSE NKLPRDKDDRDSRHQRDSRR CPGGRCRSVSGRRGRGGPRGG KSSISSVPKDPDSNPYSVLN/T ESDQTADTDASKSHHSTNRHTR SRRRRTDEDAVL
4344	34712	A	4385	1	550	TESERKDELSDWSLAGEDDRDS RHQRDSRRRPGGRGRSVSGGR GRGGPRGGKSSISSVLKDPDSN PYSLLDNTESDQTADTDASESH HSTNRRRRSRRRRTDEDAVLM DGMTVESDTASVNENGLAKDV IEEHGPSEKAINGPTASAGDDIS KLQRTPGERKRLIP*KKENTQE AAVLNGVS
4345	34713	A	4386	1	2063	MAELTVEVRGSNGAFYKGF DVHEDSLTVFENNWWQPERQV PFNEVRLPPPPDIKKEISEGDEV EVYSRANDQEPGWLAKVR MMKGEFYVIEYAACDATYNEI VTFERLRPVNQNTVKKNTFFK CTVDVPEDLREACANENAHKD FKKAVGACRIFYHPETTQLMIL SASEATVKRVNLSDMHLRSIR TKLMLMSRNEEATKHLECTKQ LAAAFHEEFVVREDLMGLAIGT HGSNIQQARKVPGVTAIELDED TGTFRIYGESADAVKKARGFLE FVEDFIQVPRNLVGKVIGKNGK VIQEIVDKSGVVRVRIEGDNEN KLPREDGMVPFVFGTKESIGN VQVLLEYHIAYLKEVEQLRME RLQIDEQLRQIGMGFRPSSTRGP EKEKGYATDESTVSSVQGSRSY SGRGRGRGPNTSGYGTNSEL SNPSETESERKDELSDWSLAGE DDRDSRHQRDSRRRPGGRGRS VSGGRGRGGPRGGKSSISSVQY RSNIHNCSTLKRIFLASDMNIVL KDPDSNPYSLLDNTESDQTADT DASESHHSTNRRRRSRRRRTDE DAVLMGMTESDTASVNENGL DDSEKKPQRNRSRRRRFRGQ AE\DRQPAIDFIYKEVEKVVS WQAKDVIEEHGPSEKAINGPTS ASGDDISKLQRTPGEEKINTLKE

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4346	34714	A	4387	1	1882	CGSNMADVTVEVRGSNGAFYK GFIKDVHEDSLTVVFENNWQPE RQVPFNEVRLPPPPDIKKEISEG DEVEVYSRANDQPCGWLLA KVRMMKGEFYVIEYAACDATY NEIVTFERLRPVNQNKTVKKNT FFKCTVDVPEDLREACANENA HKDFKKA VGACRIFYHPETTQL MILSASEATVKRVNLSMDHLR SIRTKLMLMSRNEEATKHLECT KQLAAAFHEEFVVREDLMGLA IGTHGSNIQQARKVPGVTAIEL DEDTGTFRYGESADAVKKAR GFLEFVEDFIQVPRNLVGKVG KNGKVIQEIVDKSGVVRVRIEG DNENKLPREDGMVPFVFGTK ESIGNVQVLLLEYHIAYLKEVEQ LRMERLQIDEQLRQIGSRSYSG RGRGRRGPNYTSGYGTNSELSN PSETESERKDELSDWLAGEDN RDSRHQRDSRRRPGGRGRSVSG GRGRGGPR\GGKSSISSVLKDPD SNPYSLDNT\ESDQTADTDASE SHHSTNRRRR/SIRRRRTD\EDA VLMNGMTESDTASVNEGLVT VADYISRAESQSRQRNLPRETL AKNKKEMAKDVIEEHGPSEKAI NGPTSASGDDISKLQRTPGEEKI NTLKEENTQEAAVLNGVS
4347	34715	A	4388	2	421	PRVRDSDTEDDSEAEHFESFIHP TAMMFTSTINLLQTLCLSAGVH AEIMQSEATKTL CGLL\KSSPNR LVYREQHRSWCTLGFVQSIALT LQVCGALSSLQWITLLMKVVE GHAPFTATSLQRQILAVHLLQA VLPSWDK
4348	34716	A	4389	269	417	DLNCKVGSCFEVYSS*KQGIN*I KLGDSKT*P*LSGPTSENLNSS LAE
4349	34717	A	4390	1	516	
4350	34718	C	4391	1	1527	

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4351	34719	A	4392	200	1267	TFSKASRGGNPHSMTKAPSDFR KARQTGIPGCSQLGSRYSLEPE QSALRLVCIQKLQESSTTCEDFF CPLCGRAWAVSTPLTDSPSPGH QPAVK*LGLVPFSDTHHPLPFQ VLSTDDTSSSSSCSSSCSASSSSP /SLLLLLLFLLLLLLLLMLLLKL FLLLLLFLL/RPPASPPLLPALS PPL/HCSSSPSAPPASPPAPPPPP APPPSPPPAPPPSAPSSAPLPPA PASPPFSCSSSSSCSSSSSFSSC SSLSSSAQAEGSLRAPRESSPSL DPSAPQVRVKVPPQAGSGHRA GGALENRPRGKKPWLHFRPGL RSRLPARSLRSRPAPTRWRLRSS GRFTGAATATATART
4352	34720	A	4393	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGQAKSQGCSRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIHCKDTPPSEGN MHLLSGPLSPSESFLRESFFTQV NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFCVGGQYLEVR LYALSDAEDGRGTL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGT PASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIQARFLMMLSLT LQHSANNLDLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGGPPGLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAQPSAEDS DTEDDSASPRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP

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4353	34721	A	4394	266	1110	WARGGCARNALASGNAIQGGK CNPGLFPPSPNRLVYREQHRWS CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQLCPE/HTSCPVLKDFCKSVI TDVACSSLISTLLVFWGGLLHT HKEASESWREAKSTSYVAAAR ENEEDAKAEPPTPGIKPSDLVRL IHYQENSMGETAPMIQIISHWV PPTTHGIYGSTIQDEIRVGVSYP GHTDARGFQLLLVSGDFSIPYW SLSSAYTSVNSSFVESLQSNLLK GILLPATIMTDPRTTGHQ
4354	34722	A	4395	1	734	MVQLSGKRILNSPYLELRCHQN MDHLGWVIKSLNRSEVSWVP GLEFPWGPKEPREVIAGPLLRN NGQSLESSSLEGSHVGVYFSAH WCPPCRSLTRVLVESYRKIKEA GQNFVEIIFVSADRSEESFKQYFS EMPWLAVPYTDEARRSRLNRL YGIQAHFLTANAEDFDTTVQV NKIILITYRQENSLSSSLKTGET EAQGRQLQGSPSNVRGHDPRH AIPLSVNRWNPSKSSPSPAVWS
4355	34723	A	4396	195	1071	LHEFDSSRDLTSGLGGARHRR LGGPSDAPRGLPAPPPAPVVRPG /PRSPGPSAGTAR/DAPRPSVQM RAQRPARGSTKDLETCCAAGQ QWAIIDNDECLEIPESGTEDNVC RTAQRHCCVSYLQEKSCMAGV LGAKEGETCGAEDNDSCGISLY KASLTCGLQGRCLNPQQASMG LFSYDVQSSKKINRSIQEKLGG HGVCAATPGGGMNRNCGRLLRS GQRRGGTDRCEAVLTGLFTRA LIREQMGGDPHPLDHTGQLAKPL EVEKTPARWKYLDTNGEKEEP ELRTQCPSLYED
4356	34724	A	4397	1	520	MMGEKAEKPDTEKKPKAKK ADAGGKRNCRYRSAMYSRKT TSRKKYSAKSKVEKKKKFLA TVTKPVGVDKNSGTQVVKLHK MPRYYPTEDEVPLKLLSHG/KKK PFSQHR/RRVVFLKQLV/SGTGP LVLNQVPLRRTHQKFVIATSTKI GSSNVKIAKRLTGAYFKKVWK PKHQE
4357	34725	C	4398	67	243	

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4358	34726	A	4399	1	333	QRSCIENILRAC/VGLPPQNHML LEHKMDAKRVGPVAAATYPML NKKGPVPAATNGCTGDANGHL QEEPPMPTT*GPGHTVSRLFLPA APHDPTLKAPTNNNSAATQPSKN KKK
4359	34727	A	4400	587	1013	GAASAGRGPGRAPGLWGRGP AAAGASLVPTDHSVHLSYNHLG NNDGENLSAP/SQFRSKEVSKS NVVDD/MVQSNPVLYTPGEEP HATRCWPHPSAGPSAADRAVP ARPAGAPATEPHAPGTQNGAP GPSLKRVGPVAAATYPI
4360	34728	A	4401	2	334	
4361	34729	B	4402	257	975	
4362	34730	A	4403	30	365	EEAETVLVGQLKQLSSCLAVH KYRPETKQEKQRLARAEEK AAGKGDVPTKRPPVLRAGVNT VTTLVENKKAQL\CRKMGPV YCIKKGKARLGRVHRKTCTTV AFTQVN
4363	34731	C	4404	62	217	
4364	34732	A	4405	2	69	
4365	34733	A	4406	1	951	GTRPKMPKGKKAKGKKVAPAP AVVKKQEGFRKKW*IPWFEKR PKNFGIGQDIQPQKRPPLL*K WPRQYQACSGQRAILYKR\LKV PPAMKPVSPRALD\RQTATQLA *AVAHKVQTQRQKQEKQRL\ LARADEEGCLAKGDVPNERDP PVPSSQEFNPVSPPLVKEQEKLK LVVNWHTDV\DPHPSLVCLPC/ LCPAPVS*KMGGPFTCHIQKRA RLWDRLVPQERPCTTCPFT\QV N\SEDKVRLLAKAGLEAIQGPIY N*PDTMEIRPSLGVGNVLG\PKS VAR\AKARNRHKAKETATHTG LNVTLLSFLYYKNN

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4366	34734	A	4407	1	1392	MPDVSEEQKESVCTGSMREE ESSRKGKVRTAGAKSSSSDRVP RLNQEEVESLNRPIGAEIVAIIN SLPTKKSPAPDGFTAIFYQRIRI QQPIRIQQPIKKLIQHDKVGFI GMQGWFNICKSINVIGHINRTK EKNHMHISIDAEKPFDKIQCFM LKTNLKLGIDGTYLKIIRAIYHK PTANILNGQKLEAFPLKTGTRO GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IHYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKHLGIQ LTRDVKDLFKENYKPLLNEIKE DTKKWKNIPCSWAGRISIMKM AILPKVIYRFNAIPKLPMTFFTE LEKTTLKFIRNQKRAHIAKSILS QKNKAGGITLPDFKLYYKATV TKTAWYWYQNRDIDQCTRTP SEITPHIYNLIF
4367	34735	A	4408	1	1947	MALRRLSHDVSGALLANGES TGNSGGSSGSSPSGGATSGSSQ TSISGDVVEACCSVLMSVCADP VYKVYVAAL/QCMLLVTLDP SHFTRMRRRLM/AYADEVEIAE AIQLGVED/ILDGQQDSF/CRHL FPTTIWKPQRTVP/LECTIHLEKT GKGLCATKLSASSEDISERLASI SVGPSSSTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLM FPALSTPSSSTPSVPAGTATDVS KHRLQGFIPCRIPSPQTQRKF SLQFHRNCPENKDSKLSPVFT QSRPLPSSNIHRPKPSRPTPGNTS KQGDPSKNSMTLDLNSSSKCD DSFGCSSNSS/NCCYT/SDETVFT PVEEKCRLDVNTLNSSIEDLLE ASMPSSDTTVTFKSEVAVLSPE KAENDDTYKDDVNHQKCKE KMEAEAEAEALAIAMAMSASQD ALPIVPQLQVENGEDIIIIQQDM TFFRHIIPPIQWIYKKESANLLID STGQRLRIADFGAAARLASKGT GAGEFQGQLLGTIAFMAPEVLR GQQYGRSCDVWSVGCAIHEMA CAKPPWNAEKHSNHLALIFKKL LDFANTACDGDKESVEDVET DSGNSPEDLRKEIMIGLQYQAEI PPYLGEYDGNKDSPPKMT GVQNAKEVLST

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4368	34736	A	4409	1	4485	
4369	34737	A	4410	2	927	IDHMIGHKASLNKFKKIEIISSTL SGHNGIKLEINSKRDLQNHANT RK\LNNLLNEHWVKNEIKMEI LKFFELNDHNDTTYQNLWDTA KATF\LLRGKFTALNAYIKKTER AQTDILRSHVKELEKQEQTCPK PSRRKEITKIREELNEMETNKK KIQKINETKSRFFEQINKIDRSLA RLAKKRREKIQITSIRNKTGDTT TDTTEIQKIIQGYEHLIAHKL NLEEMDKFLEKYNPPSLNQEEL DTLNRTITSNKIEMVIKLPKTK KSPGPNGFTAIFYQTFK\EELVP ILSILVHKTEKEGTLP
4370	34738	A	4411	405	517	
4371	34739	A	4412	1	1197	MEISELNAKLRSQEKEKQNEIHK LQLEKLQHFQEEKNKEIAILRN TIRDLEQRLSVGKDSHLKRENE QLKISADLIKEKLKSHEQEYKN NIAKLVSEMKIKEEGYKKEISK LYQDMQRKGRIKVTCEWTCSE RKTEGREPGVPREPTGRSQA NEGSKTLAEINTKGTQSPAERIN KIDRLLARLTNKRREKVQISSIR NKTGDIRTDTTEKQKFMQGYH EHLVYMHKLENLKEMDKFLEIY SPRLKREDIETLSRPITISDIEM KNLKIPPKLPELINKFSKVSRYK INVHKLVALLYANSQDTDNQIK NSTHFTIVAKKIYLGILYTKDM KDLHKENSK/PLLKEIIDDTIKW KHIPCSWMSTTNIVKMTILPKTI YKFNAIIKIPPSFFAERKKQS
4372	34740	A	4413	1	190	MIQRKRASIGAPCAWVRKKEE EEEEEEEEEEEEEEEEEEEEK KKKKKKKERTTWLWGNPLT
4373	34741	A	4414	303	429	
4374	34742	A	4415	123	252	
4375	34743	A	4416	1	156	
4376	34744	A	4417	3	351	EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEKEEEEEEEEEEEEEEEE LGRLHGGSGKVRGLGFTEENQ GSTNRQHOREDNRSKQKKIN NTKPEATESLIVNGITITAPA
4377	34745	A	4418	1	192	
4378	34746	A	4419	3	259	
4379	34747	A	4420	1	279	
4380	34748	B	4421	1	708	
4381	34749	A	4422	3	269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4382	34750	A	4423	1	322	MAGKQGRSEGASSWRLSSVLQ LNSQYFLQGAQQCTFLAATAW KKRKEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE\KKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKK KKKKKKKENPFSCF
4383	34751	B	4424	327	674	
4384	34752	A	4425	494	960	TRFYDHALHLIHRKGSTTVRSP PPLYFIGESKASALLAISLRWSG RSQPRSSVNQIRKAWGFRPRKG TEE/DERSGCPSDALESDDPMA YIHFTAEGEVTFKSILFVPTSAP RGLFDEYGSKKSDYIKLYVRRV FITDDFHDMPKYLNFVKGVV
4385	34753	A	4426	1	2539	VGGPRGWRCEDPNPGVGGGGG SCDRRGLETHRPHAMRALWVL GLCCVLLTFGSVRADDEVVD GTVEEDLGKSREGSRTDDEVV QREEEAIQLDGLNASQIRELRE KSEKFAFQAEVNRMMKLIINSL YKNKEIFLRELISNASDALDKIR LISLTDENALSGNEELTVKIKCD KEKNLLHVTDTGVGMTREELV KNLGTIAKSGTSEFLNKMTEAQ EDGQSTSELIGQFGVGFYSAFL VADKVIVTSKHNDTQHIWES DSNEFSVIADPRGNTLGRGTTIT LVLKEEASDYLELDTIKNLVKK YSQFINFPIYVWSSKTETVEEPM EEEEAAKEEKEESDDEAAVEEE EEEEKPKT\KKVEKTVDWEL MNDIKPIWQRPSKEVEEDEYKA FYKSFSKESDDPMAYIHFTAEG EVTFK\SILFVPTSAPRG\LFD\DY GSKK\SDYIKLYV\RR\VFITD\DF HDMMPKYLNFVKGVDSDDL PLNVSRETQQHKLLKVIRKKL VP*NRWDMIKKI/SLDDKYNDT FW\KEFGYQHSSLVIEGPLRIR TRLAKLLR\FQSSHPTD\ITS LD QYVERMKEKQDKIYFMAGSSK KEAESSPFVERLLKGYEVIYL TEPVDEYCIQALPEFDGKRFQN VAKEGVKFDESEKTKESREAVE KEFEPLLNWMKDKALKDKIEK AVVSQRLTESPCALVASQYGW

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4386	34754	A	4427	2	622	PARAALGILTSHQSGFLKTSTSK IT\STAWKNKIDITMQSTKQYAC LHDLTNKGIGEEIDNEHPWTKP VSENFT\SP\YVWMLDAEDLA DIEDTVEWRHRNVESLCVMET ASNFSCS\TSGCF\SKDIVG\LRTS\ ACWQQHCASPAFAYCG\HSFCC TGTA\RTMSSLPESSAMW*KKP ARTRLPRGKDLIYFGSEKSDQE TGTL\LLPVSS
4387	34755	A	4428	2	1421	QHCSQKDTAELLRGLSLWNHA EERQKFFKYSVDEKSDKEAEVS EHSTGITHLPPEVMLSIFSYLNP QELCRCSQVSMKWSQLTKTGS LWKHLYPVHWARGDWYSGPA TEL\DT\EPDDEWVKNRKDESR AFHEWDEDADIDEESESAEESI AISIAQMEKRLLHGLIHNVLPY VGTSVKTLVLAYSSAVSSKMV RQILELCPNLEHLDLTQTDISDS AFDSWSWLGCCQSLRHLDSL CEKITDVALEKISRALGNSGHL HQSGFLKTSTSKITSTAWKNKD ITMQSTKQYACLHDLTNKGIGE EIDNEHPWTKPVSENFTSPYV WMLDAEDLADIEDTVEWRHR NVESLCVMETASNFSCSTSGCF NHRPWSQNEYEQLNYAKQLKE RLEAFTRDFLPHMKEEEVFQF MLMEYFTYEELKDIKKKVIAQ HCSQKDTAELLRGLSLWNHAE ERQKFFKYSVDEKSDKEAEVS
4388	34756	B	4429	70	348	
4389	34757	A	4430	2	371	
4390	34758	A	4431	1	907	MGHRINIVCKIDAPCARQTRTF HPVVKTVEDCGRYPSVIEFGKY EIQTWYSSPYPQEYARNLAKEG KMGEREMSFVQQLQPMGRCS LFRELSSCTYLLNTQPP/AVSIH FLAVWILLVDGNMSKIYCQNL CLLAKLFLDHKTLYYDVEPFLF YVLTKNDEKGCCHLVGYFSKWT VLQGQWQVQGIHFSRALTLYLI CFSFPQEKLCQKYNVSCIMIM PQHQRQGFGRFLIDFISFPRLTIG ASFTQLRKQSMSNST\EIPLLGD NGKSSPTFWQSLTSSPNAHFS LEAQLSILGHLFQSP

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4391	34759	A	4432	1	3468	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGAPRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EIITNYLSDHSAIKLELRILNLTQ NRSTTWKLNN
4392	34760	A	4433	3	1900	FNKCMTLKFRLNFSRINKIDTP LARLIKKKREKNRIDTIKNDKG DITSNPTEIQSTIREYYKHLTYN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPTGSEIMAINSLPT KKSPGPDGFTAKFYQRYKEELV PFLKLQFQIEKEGILPNSFYEAS IILIPKGRDTTKNENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIQGMQGWFNIRKSINV IQHISRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLGVIKYLG QLTRDVKDLFKERS/YEPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRALIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYQYQNRDIDQWNRT EPSEITLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGM GKDYSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWVKDM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSGNN
4393	34761	A	4434	2	1932	

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4394	34762	A	4435	1	2571	MKAEIKMFFETNENKDTTYQN LWNTFKAMCRGKFIALNAHKKR KQERSNTDTLTSQKELKKQEQ THSKPSRRQEITKIRAEMKEIET QKTLOKIKESRTWFFEKINKIDR LLARLTKKKREKNQIDAINKNDK GDITDPTEIQTIREYYKHLYA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIEAIINSLP T/KKCPGPDGFTAIFYRRKRGW LPNSFYEASIIIPKPGTDTTKKE NFRPISLMNIDVKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINIIQHINRAKDKNH MIISIDAEKAFDKIQQCFMLKTL NKLGDGTLYLKIIRAIYDKPTAN IILNGQKLEVFPLKTGTRQGCPL SPLLFNIVLEVLAIRAEKEIK GIQLGNEEVKLSLFADDMIVYL ENPHISAPNLLKLINNFSGSAY KIKVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAILIKLPMTFFTELEKST LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNGTEPSEIM PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDP FLTPYTKINSRWIKDLHVRPKTI KTLENLGNTIQDIGMGKDFMSK

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4395	34763	A	4436	1	1965	MTLESEQTFVYAVTATQTGAK EGTRMSKSNVAGQQGDSGEKA LQKTYQKILREKESALEAKYQA MERAATFEHDRDKVKRQFKIF RETKENEIQDLLRAKRELESKL QRLQAQGIQVFDPGESDSDNC TDVTAAGTQCEYWTGGALGSE PSIGSMIQLQQSFRGPEFAHSSID VEGPFANVNRDDWDIAVASLL QVTPLFSHSLWSNTVRCYLIYT DETQPEMDLFLKDYSPLKLRM CETMGYFFHAVYFPIDVENQYL TVRKWEIEKSSLVILFIHLTLPRI KYLGIQLTRDVKDLFKENYKPL LNEIKEDTNKWKNILCSWTGR NNVMKMATLPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR AHIAKTILSEKNKAGGIMLPDF KLYFKATVTKAAWYWCQNRD IDQWNRTEASEITPHIYNHLIFD KPDKNKKWGKDSL FNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLG NAIQDIGMGKDFMTKTPKAMA TKAKIDKWDLIKLSFCMAKET PIGVNRQLTEWEKIFAIYPSDKG LISRIYKELKQTYKKKTNNPIEK LAKEMNRHLSKEDIYAANRHK KKCSSSLVIREMQIKTT/MRYHL TPVRMAIIKKSGNNRCWRGCG
4396	34764	A	4437	300	476	PDLSLWLPLTFFPSFQLW*I*QL CVLELLFSRSIFVAFSVFPEFES WPALLGWGSSPG

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4397	34765	A	4438	413	1689	QKLYKPERIKYLGILTRDVKD LFKENY/KLNEIKEDTNKRKNIP CSWVGRINILKMAILQKVIYRF NAIPIELPITFFTKLEKTTLRFIW NKKRVHIAKSIPSKKNKAGGIM LPDFKLYYKATITKTAWYLYQ NRDIDQWNRTEALGITPHIYNH LIFDKPDKNKQRGKDSL FNKW CWENWLVICRKLKLD AFLTPY TKINSRWIKDLNIRPKTIK TLEE NLGNTIQGIGMGKDFMTKTPK AMATKAKIDKRDLIKLKSFCTA KETNIRVNRQPIEWEIFAIYRS DKGLISRIYKELKQIYKKKTNN SIKKWAKDMNRHFSKEDIYAA NRHEKKWSPSLVTREMQIKTIM RYHLTPVRIMTIKMSGNNRCW RGYGEIGMLLHCWWECKLVQ ALWKTVWRFLKDLELEIPFDPV IPLLGIYPKDYT
4398	34766	A	4439	3	2404	
4399	34767	A	4440	1	1572	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKVLEVLARAI SQEKEIKCTQLGKEEVKLSLFA DDMIVCLENPVVSDHNVLKLIS NFSKVS VYKINVQKSHAFlyTN NRQTESQIMSELPFTITTKRIKY LGIQLTRAVKDFFKEKYKPLLN EIKKDTNKWKNIPCSCIGRINIM KMAIVPKVIYGFNAIPIKLPRTF FTELEKTTLKFIWKKKGAKTILS IKNKAGGIMLPDFKLYYKATVT KIAWYWYQNRYNQRNRTETS EITSHIYNHL/IFDKPDKNKKWG KDSL FNKWCWENWL
4400	34768	B	4441	1	1558	

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4401	34769	A	4442	837	4329	TWKGTTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YTFF/LAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKAVCRGK FIALNAHKRQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
4402	34770	A	4443	1	816	MRRDYPVKAFTSRKREQHVQK VPSKKSQRVQRTERRFLETPD LLYQKEKDLLISSKKQPRPGI ERHYMMTQGSIHQEDVAILK/V YTSNKRASKYIQQ/TLLEIKGKI/ AHPQIVGDFNTPTSTIDRTIRQQI SIEFYDTIKQWDLTDCRTGHPI TEYIFCSGAHLTFTKINHIQGP RILKRFRKRIEIECVLVKGCQA KNRKKEEDLQTYWMLNIYGPH YRSGSYAAIHRQETICSGQLSQ ALRDRFAMNAKLLLSLAHLW VIKLDFM
4403	34771	A	4444	87	307	
4404	34772	A	4445	1	534	MEESRGAKPPPALLPGDATLPP GSLGSARHPPEP/RPVPGP/PPHQ TCPGPSACSSRRPEPRSSPGSPA RAPPAPPPAAPAPRCEPPLWLL LRVPCPRSGWSWMTT*/I/SERP VQKRARSGPQPRLPCLPLSPP TAPDRATAVATPPVLGPMSSW SPRRAGGPTRPCTALQALSIPA
4405	34773	A	4446	164	660	YPSGRRLREPADVADAWDGME ESRGAKPPPALLPGDATLPPA SGQLGTRPSPSSRPSPHQTC PGPSACSSRRPEPRSSPGSPAR APPAPPAAPRA/SPRRPLPAPRS ASVPAFSAAPPQWPEVGPSPCA LRRAMPRGPGPPPEPRLVAEPG EDAAPTAGR
4406	34774	A	4447	1	417	

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4407	34775	A	4448	1	1802	MSYPADDYESEAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIPEVIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVYEIQDIYENSWTKLTERFFK NTPWPAEAIAIPQVGNDVFLI LYKELYYRHIYAKVSGGPSLEQ RFESYYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLLRHSL GDYYQAIKVLENIENKKSmys RVPECQVTTYYYVGFAYLMMR RYQDAIRVFANILLYIQRKSM FQRTTYKYEMINKQNEQMHAL LAIALTMYPMRIDESIHLQLREK YG\DKMLRMQKGDPOVYEELF SYSCPKFL\SPVVPNYDNVHPN YHKE\PFLQ\QLKGVF**SSSQ AQLS/TPIRSFLKLYT\TMP\VAK LAGFPGPSQSQEF\RIPGFFVFKQ QDERTSVWTQRVFSAPGW*NF SQASEVDF\Y\DKDMI\HIADTK VA\RRYG\DDFIRQ\HKF\EELNR TLKEGWGQRPWMIFHTHFREP GFECIIQGGSVFC

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4408	34776	A	4449	1	1722	MNIKAKILNKILANRIQQHIKKL IHHDHVSFIPRMQGWFNHKKPIN VIHHINRTNDKNHMIISIDAEKA FDKIQHPFTLKTNLKDDMTVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINVVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNRDIDQWNRTE\PSEI MPHIYNHLTFDKPDKNKQWGK DSL FNKWCWENWLAICRKLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTVQDIGMCKD FMTKTPKAMATKAKIDKWDLI KLKSFCTSKETHIRVNRQPTWE KMFAYPSDEGLISRICKE/LFKQ IYKKKNHPIKKWAKDMNRHFS KEDIYVANKHMKKSLSSLVIRE MQIKTTMRHHLTPVRMTIIKKS GNNRFWRGCGETGMLLHCWW ECKLVQPL*KIVW*FLKDLESEI PSDSAIPLGGIHPKAYKSFFYY
4409	34777	A	4450	1050	1147	PGEWHGQGSPRCWR*PLPQRC GHLLSCRWRTP
4410	34778	A	4451	1	614	MEELVDEGLVKALGVSNFHSF QIEKLLNKPGLKYKPVNTQNSL GTMQNRAGFPRDEDCLLLQVE CHPYLTQEKLQYCHSKGITVT AYSPLGSPDRPWAKPEDPSLLE DPKIKEIAAKHKKTAAQVLIRF HIQRNVIVIPKSVTPARIVENIQN TEHYKYCGLCVGPNLEKNLYP VDRM/WKNSCGQFVL*ISSHLE DYPFNAEY
4411	34779	A	4452	2	240	WMELESLSHFQIEKLLN/KPGL KYKPVNTQVNSIQFKGSILEEGI VNMGDDSSMHVSAPEDPPVQG DVEAEDSDTDDPDPV
4412	34780	A	4453	1	1019	
4413	34781	A	4454	1	2028	

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4414	34782	A	4455	3	1045	DFTSENFSAAWYLIENHSNTSF EQLKMAVTNLKRQANKKSEGS LAYVKGGLSTFLEAQDALS QKLEADGTEKVEGSMTQKLEN VLNRASNTADTLFQ/EKVLGRK DKADST\RNALNVL\QRFKFLFN LPLNIERNIQKGDYDVVINDYE K\AKSLFG\KTEVQVF\KKYYAE V\EP RVEALRELL\DKLLET PST LHDQKRYIRYLSDLHASGDPA WQCIGA QHKWILQLMHSCKEG YVKDLKGKDFSSNVFQFSGSAL RRVPD TVRVLDSQFSRSALRSV PDTVQVLDSQFSGSALRRVPDT VRVLDGQFSRSALRSVPD TVRV LDKCHCSPAKVVMNAV TIFTG
4415	34783	A	4456	1	440	MQRNLARAFSPGIKKIKMMCL GNSEKDWPKFRGVGEDAGLLA ARECGALLVIRHLINAVRAIVP NKSNN E I I L V L Q H F D N C V D K \ T V QAFMEGSASEVLKEWTVTGKK KLLQGEELARLPFITGGSGSC YSSSTLAVEEECRVLA
4416	34784	A	4457	1	276	MEDEMEGLTEAGFRRWVT TNS AELKEHVLTQCKEAKNLDKRL EELLSRITSLERDISDQME/RELC EAYTSINSQINQAEERISEFEDH LAEI
4417	34785	A	4458	3	361	EMVHRKKKAVHRTATADDDK LQFSLKKLEVNNVSGIEEVNMF TNQGTVIHFNAEMPANSFTITG HAETKQLMEMPLSILNQLGAH CLTSLRRLAEALPKQSVNGKAP LATGEDDDEVPA
4418	34786	A	4459	1	475	
4419	34787	A	4460	57	820	EDGSGGGKFPEGARQGGTGQR RRRKAMRRTGAPAQADSRGRG RARGGCPGGEATLSQPPRGGT RGQEPQMKETIMNQEKTRHTC RAQ\VRIGGKGTARRKKKVH RGAAS/ADDDKKLQF\SLKK\LG VNNISGIE\EVNM\FTN\QGTSGST FNNP*KFQGISWPANTFHHLQG HAEDKGS*QEMLAQHLKPSLG ADSLTSLRRLAEALPKQSV D GK APLATGEDDDDE\VPDL\ENF* *RLPRNEANLNLSQLKIKP
4420	34788	A	4461	1	1527	

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4421	34789	A	4462	8	327	LIWQLTFTKTIKS/CEEYGVKIVST KAILDKNTNQCKGMCKGIRTL KSCLCYLINGSSIVEVQKRLAY AGTLEPSLVHQVYSELSYYKLP GTQVVRHIAEVLRLMQDSSE
4422	34790	A	4463	2	573	WMEGREKWRGRRKDGRKEGR KEGRKERRREREKGRERK/GKE RKGGKERKGGKERKGGKERKGRER KGTEGKGTEGKGKERKGGKEGK GKERKGGKERKGGKERKGGKEGK KEQKGGKERKGGKERKGGKERKGGK ERKGGKERKGGKEEGRERKGGKE GKGRERKGGKEGGKEEGRERKERR KEGRKEGKKFSNNGMVEEMQ
4423	34791	B	4464	1	1344	
4424	34792	A	4465	3	373	
4425	34793	A	4466	1	3864	MQWEEAEKDPGSGCVFQRPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSND
4426	34794	A	4467	3	415	
4427	34795	A	4468	396	676	LCPFYAERPDLQFLC*DLCARSP YLLQAQKYLQEF*AIPHLDDQQT EPPDPSVSFYLLDCTLNCTAQH KTC*KKSIKL*EQNQQLTSSIPY SHT
4428	34796	A	4469	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFLSLSLRKSP VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVA AGLVSEAVKIIQGLTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGVLRRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
4429	34797	A	4470	918	1939	

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4430	34798	A	4471	3	2693	PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLLFEEGISPEV WATEGQYGQAKNAHFVQVKL KDSTSPYQRQYPLRPEAQQRL QKIVKDLKAQGLVKPYSSPCNT PILGVQKPKRQWRLVQDLRIIN EAVFPLYPAIPSPYTLLSQIPEEA EWFTVLDLKDFFCIPVHPDSQ FLFAFEDPSNPTSQLTWTVLQP GFRDSPHLFGQALAQDLSQFSY LDTPVLQCMDLLAARSETLC HQATQALLNFLTTCGYKVSKEP KAQLCSQQVKCLGLKLSKVTR ALSEERIQPILAYPYPKTLKQLR GFLGITGFCRIWIPRYGKIARPL YTLIKETQKANTHLVRWTPEAE AAFHALKKALMQAPVLSLLTG QDFSSYVTKNKQTKKKK\T*IA LRVLALV*GTSLPVAYLSKKT DVVAKGWPHCLWVMAAIAVLI SKAVKMIQ*RDLTWVWTSQHDVN GILTAKGDLWLSDNHLLKYQA LLEGPMLRLCTCAALNLDFTL PHNEEKIEHNCQQVIAQTYATR GDHLEVPLTDPNPNLYTDGRSF VEKGLQKVGAYVSDNGILES NPLTPGTSAQLAELIALTWALE LGEKRVNIYTDSKYAYLVLH AHAVIWREREFLLTSEGTPIKHQ
4431	34799	C	4472	11	1639	
4432	34800	A	4473	95	2539	
4433	34801	A	4474	345	768	PRGARSTRCLPVERR\CDGLQD CGDGSDEAGCPDLACGRRLGSF YGSFASPDLFGAARGPSDIHCT WLVDQTQDSRRVLLQLELRLGY DDYVQVYEGGLGERGDRLLQTL SYRSNHRPVSLAAQGRLLTVA YHARARSHPLMNE
4434	34802	A	4475	47	563	RLRFVFTGAFHALSFLSFVV LCCTYLKGLKVARFHCKRIDV/ MHHADARAAGGPAPQCAGTLS VEEQRRRQRATKKISTFIGTFL VCFAPYVITRLVELFSTVPIGSH WGVLSKCLAYSKAASDPFVYS LLRHQYRKSCKEILNRLHRRSI HSSGLTGDSHSQNILPVSE

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4435	34803	A	4476	1	332	ERGRQEMSAKLRPPAEPPCVPA RISP*RPS*RQ*MERRCPPWRCS PMPC/CFFREHALQVRCGPTSA DCGRDPLFSPHPKPLPHPVPDIG WVATAGAQRSSSPVPSSLFVW
4436	34804	A	4477	297	943	TGSWGGGGADQLRPALTALM PPDNRFGENTPAAPANGHCAP EPDITLVQDHSELPIGAAATMA HEIGHSLGLSHDPDGCCVEAAA ESGGCVMAAAT/GVRGHPFPRV FS/SCSRRQLRAFFRKGGGACLS NAPD/TRTPGAAALCGNGFVEA GEECYCVS\GQECRDLCFAHN CSLRPGAQCAHGDCCVRCLVR/ CMEGSGSHQLPRLVPGGDSAEI LM
4437	34805	A	4478	1	836	MGPLTFRDVKIEFSLEEWQCLD TAPGNLYRDVMLENYRNLVFL VMCSHFAQDVWPEHSIKDSFQ KVILRTYGKYGHENLQLRKDH KSVDACKVYKGGYNGLNQCLT TTDSKIFQCDKYVKVFHKFPNV NRNKIRHTGKKPFCKNRGKSF CMLSQLTQHKKIHTREYSYKCE ECGKAFNWSSTLTKHKIHTGE KPYKCEECGKAFNRSSNLTKH KIIHTGEKPYKCEECGKAFNRS STLTKHKRIHTEEKPYKCEECG KAFNQFSILNKHKRIHMGR
4438	34806	A	4479	1	588	MLGKVQQQEQTIAKDLVVTKY KMCGGT/DIANRVLRSLVEASS SGGQDYILKEGDLVKIDLG VH VDGFIANVTHTFVVDVAQGTQ VTGRKGDVIAAQLCVEAALC LVKPGNQNIQVREAWSKVALS FNCMPIEGMLSHQLKQHVIDGE KNIIQNPTDQQKKDHEKA EF EV HEVYAADV LVSSGEGKAKDAG
4439	34807	A	4480	85	561	LSHCLPLQTTEVGFGNLLGY WIACSIGCVLSTGMLSHQLKQH VIDGEKTHIQNPTDQQKKDHEK AEFEVHEVYAVDVLVSSGEGK VRRVPELAKRGD*ECSPDQMLL KLLFQAKDAGQRTTIYKRDP SK QYGLKMKTSRAFFSEVERRFD AMPFTLRY

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4440	34808	A	4481	1	1408	GTSAPQPARSQLLALACLPA LARAFAARPLLEDGRGSDHSLW LGRETEAAAAQGKRGCSGGS KMSGEDEQQEQTIVD/DSLVT KYKMGGDIANRVLRLSVEASS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISVNNC VCHFSP/L*KSDQDYILKEGDLV KIDLGVBH\VDGFIANVAHTFVV DVAQGTQVTGRK\ADVIKAAH L\CAEAA\LRLVKPGNQNTQVT EAWNKVAHSF\NCTPI\EGMLSH SLKQHVIGDEKP*FQNPTDKQK\ RAHEKADFEVHDVYAVEGLV KPQERARPKDAGQRTTIYKRD SKQYGLKMKTSRAFFSEVERRF DAMPFTLRAFEDEKKARMGV\ VECAKHEL/VWQPFNVLYSGRE GDFVCPVLNFTVL\LMPNGPML ITSGPFEPDLYKSQMEVQ\DAEL KALLQSSASRKTQKKKKKKAS KTAENATSGETLEENEAGD
4441	34809	A	4482	3	190	
4442	34810	B	4483	1	588	
4443	34811	A	4484	1	1312	MSSKGSVVLAYSGLDTSCILV WLKEQGYDVIAAYLANIGQKED FEEARKKALKLGAKKVFIEDVS REFVEEFIWPAIQSSALYEDRYL LGTTFF\ARPCIARKQVEIAQREG AKYVSHGATGKGNDQVRFELS CYSLAP\QIKVIAPWRMPEFYNR FKGRNDLMEYAK\QHGIPVTP KNPWSMDENLMHISYEAGILE NPKNQAPPGLYTKTQDPAKAP NTPDILEIEF\KKGVPVEGGPTF KDG\TTHQTFLAELF\MYLNEVA GKHGVGPYLTSWENRFHWELK SRGILRRPQAG\TILYHAHL DIEAFTMGGDRAQIPNQGLGF EFVLEGVYRFSGTAPECELVG PCLRQSPQERVEGKSAGVPSL KGPRCTSLGPEVPHCSLYNE VELVKHGTCCQGDYE\PN* LPPGFQTSISLKAEGNYHRL PRAKVTAQIRPRVQ
4444	34812	B	4485	47	482	

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4445	34813	A	4486	2328	3435	KTTTLEDNLGNTIQDIGPGKDF MMKIPKANATKIKIDEWDLIKL KSFCTAKATTKRVNKHDESLRS HYE*WGMLTDCVVMRDPNTK RSRGC GFV TYATVEEVDAATN ARPHKVDGKVVEPKRTVSRED SQRPGAHLTVKKIFVGGIKEDT GGFAFVTFDDHDSVDKIVIPKY HTVNGHNCEVRKALSKQEMAS ASSSQGRSGRGGGFGGNENFG CGGNFSGHGGFGGSHDGGGYG GSGDGYNGFGNDGGYPGGGPG YSGGSRGYSGGGQCGNQDSG YGRSGSYDSCNKGGRGGFGSG SGSNFGGGGSYNDFGNYNQY SNFGPMKGGNF/GGRRSGP*GD GGQYFAKPPNHSGYGGSSSSS
4446	34814	A	4487	1	762	
4447	34815	A	4488	3	333	
4448	34816	A	4489	1	1676	MRDPNTKRSRGFGFV TYATVE EVDAAMNTTPHKVDGRVVEPK RAVSREDSQRPGAHLTVKKIFV GGIKEDTEEHHLRDYFEQYGI EVIEIMTDRGSGKKRGFAFVTF DDHDSVDKIVIQKYHTVKGHN CEVRKALPKQEMASASSSQRG RRGSGNFGGGRGDGFGGNDNF GRGGNFSGRGGFGGSCGGGGY GGSGDGYNGFGNDGSGNF*G\GG SYNDSGNYNNQSSKFEPMKGG NFGGRSSGPYGGGGQYFAKPQ NQAARCVAARWLFRT EARLVF LQKFPPWAVVEVVTVIVAAPA AATATTRDGGGCSRNCNIPEVF PELLGCPNRRGPPGGVREKQQQ TNSKSTRRQEITKTIAELKEIETR KTLQKINESRSWFYEKINKVDR LLDRLIKKKREKSQIDAIKNDIG DIVTDP AEIQT TIKEYYKRLYAN ELENLEEMDKFLATYSLHSLNQ EEVESLNKPVTSSVEAVTNSL PTKKSPGPDGFTVLLEV LAPAIR QEKEIKHIPIGREEVKLSLFADD VIVYLENPIVSAQNLLKLISNFS

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4449	34817	A	4490	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRSIVK VSLLPVIGLKSFLKKPDQLR KLFVIGGLSFETTDESLRSHFEQ WGTLTDCVVMRDPNTKRSRGF GFVTYAT\VEEVDAAMNARPH KVD\GRVV\EPKRAVSREDSQRP GAHI\TLVKKIFVGGIKEDTEEH HLRDDYFEEILNSMEKIEV\IEI MT\DRGSGKKRGFAF\VTFDDH DSVDKIVI\QKYHT\VGNGHNCE VRKALSKQEDG*VLHPAQRG\ RSGSGKLLVVGRGRWFSVGMD NFG\RGGNFSWSV\AFGGTARG\ GGGYGWQWGMAYNGFGNDG\ SNFGGGG\SYNDFG\NYNNQ\SS NFGPMKGGNFG\GRSSGPYGG GGQYF\AKPR\NQQGYGGSSSS\ TVLNSMSVILAISTLLKIITGELL QSF GDGLLWNLVIGIRGIDGLSP KVRKVLQLLRLRQIFN/GTFVK LIKVTVNMLRTVEPYIAWGYPN LKSVNELIYKHGYGKISKKRIA LTDNVLIARSLGKYGIICMEDLI YEIYTVGKRKEANNFLWPFKL
4450	34818	A	4491	134	612	
4451	34819	A	4492	1	1983	
4452	34820	A	4493	1	1527	
4453	34821	B	4494	1	2211	
4454	34822	A	4495	1	2478	
4455	34823	A	4496	2	1544	
4456	34824	B	4497	1	2151	
4457	34825	A	4498	1	744	
4458	34826	B	4499	1	2172	

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4459	34827	A	4500	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARSLV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANS�DFPPASLL CLICQEQGVNGESCSPVGMVYH REIVPVYEVLVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDAEKAFDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNYLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPTKINSRWIKDL NIRPKTIKLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETIRVNRQPT
4460	34828	B	4501	1	1785	
4461	34829	A	4502	1	1415	
4462	34830	B	4503	1	3262	
4463	34831	A	4504	1	278	

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4464	34832	A	4505	3	2528	ENKDTTYQNLWDAFKA\VCRG KFIALNAHKRKQEKSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEKIDTQKTLQKINESRS WFFERINKIDRPLARLIKKKREK NQDITIKNCKGDITDPTEIQTT IREYYKHL\YANKLENLEEMDK FLNTYTLPRLNQEEVESLNRPI GAEIVAIHSSLPT/K/KSPGPDGFT AEFYQRYKEE/LEKEGILPNSFY EASIIIPKPRDATKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRTKDKNHMISIDAE KAFDKIQQRFLKTLNKLIGDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPSPLLFNIV LEVLAIRQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNTQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKDDTNKWKNIPCS WVGRINIVKMAILPKLPMTFFT ELEKYTILKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEIMPIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGL GKDFMSKTPKAMATKAKIDK
4465	34833	B	4506	1	5401	
4466	34834	A	4507	1	5271	MNIDAKILNKILPNQIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMILIDA EKSFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE VFTLKTGTRQGCPSPLLFNIVL EVLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKQISNFSKISQYKINVQKSQA FLYTNNRQTESQIMSEIPFTIAL KRIKYLGIQLTRDVKDLFKENY
4467	34835	B	4508	924	3423	
4468	34836	A	4509	525	673	RDSWGTCPSVGAGKVDWPPSS *HHR*HQQWCCGMPHQLSTKE NISIKDHLTKEKRRGGAV*RII

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4469	34837	A	4510	25	1766	GTCQFAAMNVVFAVKQYISKM IEDSGPGMKVLLMDKETTGISV MVYTQSEILQKEVYLFERIDSQ NREIMKHLKAICFLRPTKENVD YIIQELRRPKYTIYFIYFSNVASK SDVEVIGLKLIEQEVVAEVQEF YGDYIAVNPHLFSLNILGCCQG RNWDPAQLSRTTQGLTALLLSL KKCPMIRYQLSSEAARKLAECV KQVITKEYELFEFRRTEVPPLLL ILDRLLDAITPLLNQWTYQAM VHELLGINNNRIDLSRVPGISKD LREVVLSAENDEFYANNMYLN FAEIGSNIKNLMEDFQKKPKPE QQKLESIGSIMKAFVENYPQFK KMSGTVSKHVTTVGELSRLVS ERNLLEVSEVEQELACQNDHSS ALQNIKRLQNPKVTEFDAARL VMLYALHYERHSSNSLPGLM MDLRNKGVSSEKYRKLVS AVVE YGGKRVRGSDLFSPKDAVAITK QFLKGLKGVGNVYTQLQPFLL H\ETLDHLIKGRLKENLYPYLGP STLRDRPQDIIVFVIGGATYEEA LTVYNLNRTTPGVRIVLGGTTV HNTKSFLEEVLASGLHSRSKES
4470	34838	A	4511	1	1335	MAPVTMMGYRSGKMGIADV QLQVGPPGPWLHLVVIAPVPEC ITGIGIFSSWGSPPVGLLYDIR AIMWGLAPAENTWILGNNHR RFLAQLKPRVIMQDFS NVISKS DVKSLAEADEQEVAEVQQVI TKEYELFEFRRTEVPPLLLILDR CDDAITPLLNQWTYQAMVHEL LGINNNRIDLSRVPGISKDLREV VSSAEIDEFYANNMYLNF AEIG SNIKNLMEDFQKKPKPEQQKL ESIADMKAFVENYPQFKKMSG\ TVSK\HVTTVG\ELSRL\VSERN LAGRFSEVEARNWACQNDHS\ SALQNIKRLQNPKVTEFDAAR LVML\YA\LHYERHSSNSLP\GL\ MMDLRN\KGVFWRKYSKARVL AVVEYGGKRVRGSDLFSPKDA VAITKQFLKGLKQEI VNCVLA AANVYIKQLPLSIQPSASLNGCI SLEKKPLVSTQRN
4471	34839	A	4512	1	816	
4472	34840	A	4513	26	257	
4473	34841	A	4514	56	236	

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4474	34842	A	4515	170	373	HSPRGSTASF/CEVSETKNPPIPD TPATREAEGRLRSRLAVYSTRDS PCVACSGSYTQAQGSGLGRKFQ DP
4475	34843	A	4516	262	358	
4476	34844	A	4517	2298	2556	NHKNPRRKPRQYHSGHRHGQG LHD*NTKSNGTKSNGNKSQN* Q\WDLINLKSFCTAKETTIRVNR QPTWEKIFTIYPSDKGLISRI
4477	34845	A	4518	801	944	DQEPITNSRHILATQMGPSPITKQ SNPGV**KECGFSCSPRVWRYL VS
4478	34846	B	4519	85	660	
4479	34847	A	4520	693	827	
4480	34848	A	4521	272	339	
4481	34849	C	4522	532	2754	
4482	34850	B	4523	1	519	
4483	34851	B	4524	266	935	
4484	34852	A	4525	1	1584	
4485	34853	A	4526	1	723	GALPNGDRGRRKSRFALYKRP KANGVKPSTVHVISTPQASKAI SCKGQHSISYTLNRNQTVVVEY THDKDIDMFQVGRSTESPIDFV VTDITSGSQNTDEAQITQSTISR FACRIVCDRNEPYTARIFAAGF DSSKNIFLGEKAAKWKNPDGH MDGLTTNGVLVMHPRGGFTTEE SQPGVWREISVCGDVYTLRETR SAQQRGKLGQLTGDMAENT/T VHALPSNCMVWRRSQTRQQIS
4486	34854	A	4527	1	335	
4487	34855	A	4528	328	871	DCGGGRARTAIFAGAARAADN KKCAGARRALGRARGCSATAR PRRRRRRPRGLAPPRPARPPPG GMSYKPNLAHMPAAALNAA GSVHSPSTSMATSSQYRQLLSD YGPPSLGYTQGTGNSQVPQSKY AELLAIIIEELGKEIRPTYAGSKSS MERL\KRGIIHARGLVRECLAE TERNARS
4488	34856	A	4529	1	653	MAGPAESSPQGAHPNSPFALQH HSSLTVKPLHRQNVIQHQVAG QENRRGHQAGSSTSPQPLEALK RPNLRAPFHSQSRRIIPPAGNP TPGAAAPADPSTQRRDRWGCA LPMPRVAAGSAHHQQAGPTAA AQHRTPVALFSPPLSLVYGQQQ RKESETPTVPTPPARARGWTET GVEHVPAYNRTAPEKCDI/SV PSPHSPDAETSHPRHISPCPG

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4489	34857	A	4530	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRLARA EKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPYCIHKGKAR LGRLVHRKTCTTVAFT
4490	34858	A	4531	1	2073	MKPCAHSWNAELSRNIIRHSFN LVMVAASQVAVSQQLLGSYEILL LVSIELMFCFGLGYFFIPMQEW PNTYGERVFVDVESSVFKWNH KCLHKTEAERDYTKRRLKLCG HKPGNAVGGQKLEEARNRFFT RAPGGSAAALPTLRFQPSDTRF LLASRTILTFETKNPSELAERLR SVCNGQSNAYARLLEYRLNAL RGLWNAQRQLALEEQHERESS GDEETLALLKRQGLLQQPEQAP FTSRMGLLLVFPLIQSQRSDPS LCNITAEVLLNCLRDCQPLSLT KEPADCLNGIETLLCSWLEETS DTGRHIPHKQKENAAAALVAL ACARGFVYCRNEEPEGWVAF GSGSLLHRPVSF DNKPHSLFQVI DQNTLQVCQVVPMPANHLPIG STMSTVHLSSDGTIFYWIWSPA SLNEKTPKGHSVFM DIFELVTL KGKKAKGKKVAPAPAVVKKQ EAKKVVNSLFEKR\DIQPKRELT YFVKW/PRYVRLQQQRAILYKQ LKVPPAINQFTQALNCQTVTQL LKLAHKYRPETKQEKQRLLA QAEKKAAGKGGVPTKRPPALR AGVNTITTLVENKKAQLVVIAH DVDSIELVVFLPALCCKMGVPY CIHKGKARLGRLVHRKTCTTVA FTQVNLEDKGALAKLVEGIRTN DNDRYDEICCHWGGNIGPKS VACIAKLEKAKAKELATKLG
4491	34859	A	4532	1	2565	
4492	34860	A	4533	1	644	MPKGKKAKEKKVAPAPAVVK KQEAKKVVNPLFEKRPNFGT GQDIQPKRDLTHFVKWPCYIRL QQRTILYKWLKVPPEINQFTQ APDSQTATLLLKLAH/KYRPET NQEKKQRLARAKKKAAGKG DIP\TKSPVLRAGVNTITTLVE NKAQLVVIAHDVDPIKLVVFL PVLCHK/MGVPYCIHKGKARLG HLVHRKTCTTVTFTQVNSDK

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4493	34861	A	4534	1	931	KSIQKGLKMCLSSSLPPSKMP KGKKAKGKKVAPAPAVVKKQ EAKKVVNPLFEKRP\KNFGIGQ DIQP\KRDFTRFVKWPRLLSGC MR\KRAILYKAG*KLPPA\INQF HPGPWDPANKLLQLL*AWAHK \YRP\ETKAKRKKQRL\LARA\E KKAA\GKGDVPNERDPPV\LRA\ GVNTVTHLWWRNKKAPAWVV IATRRWIPFEL\VVFLPAL\CREK WSPYCI\KGKARLGR\LVH\RR PCT\TVGFHTR*NSKDKRLLA* AGLEAIRTQFTIDQIRWRSGRH\ WG\GNVLG\PKSVARIRQASKR QRLKELATKLG
4494	34862	A	4535	3	227	
4495	34863	A	4536	1	338	
4496	34864	A	4537	1	352	
4497	34865	A	4538	2	368	
4498	34866	A	4539	3	468	
4499	34867	A	4540	2	790	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PDVVSLEQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELD CFSLPRDTTLVHYI DDIMLIGSSVQEVENKLDLLVK DKLLHLAPPTTKEEVQH MVGL FGFWRQH IPHLGVLHQPIYRVI RKAA/SFEWGPEQE KALQQVQ AAVGGKQSENNLGHQRSPGLW
4500	34868	B	4541	179	1219	
4501	34869	A	4542	1706	2517	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPTLRSAGL EVLVPGEGLPPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV

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4502	34870	A	4543	3	367	DLWPFTRVTVH/WGKANDQTF QGLLDTGSELTLPGYPKRHCC PPVKVRVYGGQTDGSRMTV GYHKLNQVVTPIAAAVPDVVS LLEQINTTPAIKWVVHSSIPSSN GSGVYVIRLEQVLKAQ
4503	34871	A	4544	2	541	
4504	34872	B	4545	1	681	
4505	34873	A	4546	2	1091	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTATAIAAI PDVVSLLAQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELDLDCFLPRDTTLVHYI DDIMLIGSIKFLGVQWCGACRD IPSKDPADPMVLEVSADRDV WSIWQALIDESQQRPLGFWSKS LPSSADNYSPFERQLLAYYWAL VETERSTMGHQVTMLPELPVM NWLSDPSSHK/ANGLAGWSG TGKKHDWKIGDKEIWRGMW MDLSEWSK/D/VKIFVSHVSAH QRVTSAAEEFNQVDRMTRSM DTTQPLYPTTPVIAQWAHE
4506	34874	A	4547	1	1236	
4507	34875	A	4548	1	1467	GEKGNQDQTFRKLLDTGSELMLI PLRVVIPTTSLFNSPIWPVQKTD GSGRMRVDYHKLNQVMTPTA AAVDPVVSLEFEPINTFLGTWYA AIDLANALFSIPVCKAHQKQFA FSWQGGQYTFTVLPQRYINCLA LCHNLIQRDLDFLLPQGITLV HYIDSGPFIK*PEAASFEWGPEQ EKALQQVQAAVQAALSIGPYD PADPMVLEVSADGDVAVWSL WQAPKGESQWRPLGFWSKALP SSTDNYSSDVQLYTDSWAVA SSLAG*SGTWKKHDWKIGDKEI WGRGMWMDLSEWSKTGKIFV SHVNAHQLVTSAAEDFNNQVD RMTRSDTTQPLSPATPVVAQ WAHEQSGHGRNEGAWTQQ HGLPLTKADLTATAECPICQQ QRPTLRPRYGTTSQGDQPATC WQVDYIEPLPSWKRQRFLLTGI NTHSGYGFAYPPCNASAKTTIH GLIACLIHCHGIPHSIASLYRER GTHFTDKEVQQWAHAH

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4508	34876	A	4549	2	1602	NLSPILPQDLWPFTRVTVHWGK GNDQTFQGLQDTGSELMLIPGD PKRHCSPPVKVGSYGGQVINGV LAQVRLTVGTVGPRTHPVVISP VPECIIDIDILNSWQNPHIDSLTG RVKAIMVGKAKWKPFEP LLPIK IVNQKQYRIPGGIAEISATIKDL KDAGVVIPITLPFNSPFWPVKKT DGSWRMKVVYCKLNQVVPIT AAVPDV/VVSLLEQINTSPGTW YAAIDLANAIFSIPVHKAHQKQ FAFSWQGHQNTFTVFTILLHIH KVGHAQQHSIIKWKWYIHDGA RAGSEGTSKLNEEVPQMPMVT TSAALPSLPRPAPMASWGVLY DQLTEEEKTRAFTDGSARYA GTTQKWTAAALQPLSRTSLKG SGEGKSSQWAE LQAVHLVVHF SWKDKWPDVRLYIDSWAVAN GLAGWSGTWKKIIDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI

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4509	34877	A	4550	1	1891	MLSSTQNAGGSYQVRVGALDT QEWKWGEVSPRTLNV DGRAL VSVANTHGTDRPAYTLNPQSR DQRSGVITLGYKRPLEREDLFE LKESDSFCTACPIFEKQWRKEV LRNQERQKV KALNKLDEALCP GIIL.TQSTDSNANLFQKQPHRHT QTSGRWQIIIFCEHSSDFGWNG YGYAVALLVVVFLQTLILQQY QRFNMLTSAKVKTAVNGLIYK KLGWSGKVS WLILHDVGHGIM EGYIAWGKGSDVRITWEKKST EMRTRPAQKMALLSNVSRQK FSTGEIINLMSATHGLDSKPQSP LVCPSNPNGRISPLARAGLAD HYRVTHLQILKLYAWEPSYKN KIIKIRDQELEFQKSARYLTVFS MLTLTCIPFLTKISLGRLEDFLN TEELLPQSIETNYTGDHAIGFTD ASFSWDKTGMPVLKESIRIRIEQ VLNQLSLFETVDYPGSAVYVSQ QAWIQNCILQENILFGSIMKKEF YEQVLEACALLPDLEQLPKGD QTEIGERAVNISGGQQHRVSLA RAVYSGADVLLDDPLSAIDV HVGKQLFEKVIGSLGLLKNRTH ILVTHNLTLLPQMNLIVVMKSG RIAQMGIIYQELLCKTKNLN\FT KSSVNKKKVGEEWESGRGS
4510	34878	A	4551	2	542	LTSAKVKTAVNGLIYKKVSLAT LCVYFLLDERIILTAPKVFTSMS LFNILRIPLFELPSVISA VVQTKI SLGRLEDFLNTEELLPQSIETNY TGDHAIGFTDASFSWDKTGMP VL/NRGSEAYVSQQA WIQNCIL QENILFGSIMKKEFYEQVLEAC ALLPDLEQLPKGDQTEIGERV
4511	34879	A	4552	1	667	IETNYTGDHAIGFTDASFSWDK TGMPVLKESSVAYVSQQA WIQ NCILQENILFGSIMKKEFYEQVL EACALLPDLEQLPKGDQTEIGE R/GKETAVNISGGQQHRVSLAR AVYSGADVLLDDPLSAIDVH VGKQLFEKVIGSLGLLKNRTH SVCHYTLLAVPHLLEVQILTGN FIQSLGFNYHEYANNSNAYIVN LDLFPGFQTCVYKLLSPIRCLIC
4512	34880	A	4553	201	336	QQTPGKAVHAPFIADQSLT*EL VSVFPQFQLFPYRR*DSHSGKS
4513	34881	A	4554	3	515	

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4514	34882	A	4555	1	852	MPCTTSGLDKVPTSKKALTRY GYGSLTLDGSGSIIPCKMCLSPS TRIVRPSQPRGTEDPDETGDTEF VNSDESFLLEGATSPSPVAVSP PRPMLPSAFPPLSEDINPVLPEA TVLASPEVVAKQTHVDSRPKPL STFLFASRPVTKLKSQTPGGE VDSVTCEEKTDGPWRKTVDYC KLNQVVTPIAALVPDMVSLLV QINTSSDTSYAAIDLAKAFFSIP VYKAHQKQFIFSWQAQQYTFT VLPQGYIISPALCHNLIRR/DLD HFLLPQDITLVHYIDIRL
4515	34883	B	4556	288	327	
4516	34884	A	4557	51	598	LFGGCHTSGGLAVRVPRMPRG SRSRTSRMAPS\ASRAPLK*ELE PRQAQVAQPPAAAPPASVVGSS\ AAAPRQPG/LFMAQMATTAAAG VA\VGFCGCGHTLGHG\TGGLS VGGKLI*ALRRP*HQFNQGSF RGTQAKHSKQQPALPLLWRIKT SFREVVPPEPRVTIQGFCGFP RLLETVPDL
4517	34885	A	4558	1	10434	MTVIRSGIAYILHLKSYDVNIQT GSNACNQPTHPNGDCSHFCFPV PNFQRVCGCPYGMRLASNHLT CEGDPTNEPPTQCGLFSFPCK NGRCVPNYLDCGDVDDCHDNS DEQLCGTLNNTCSSSAFTCGHG ECIPAHWRCDKRNDVCGSDE HNCPTHAPASCLDTQYTCDNH QCISKWVCDTDNDCGDSDE KNCILNCTASQFKCASGDKCIG VTNRCDGVFDCSDNSDEAGCP TRPPGMCHSDEFQCQEDG
4518	34886	A	4559	24	849	ATGRCCCGLAPGFPLCWVLYP GGRGSA\CPEPHVLRGTGSPQRE QRTNGRTDLSSLLPNLNFDSP RCKHKNQLAITLRKRIRKLATS LFSSTIFRISGTSVIISAPGAGLPL PALFPTRCQPKFSRSIDPTGKAV QTADIRLSARATLWLGGSEESP VLCSTLRLLRLRPLPTWTSPN RPTQPCTAQTQTNQSVGIAAPS AIRVIYPESVVLNAVIVLPDPE VSGLPRAFKRRFSVEVRLDCGT FKLLLVIYCTHPGDKVNTCKT GALVAF
4519	34887	C	4560	192	449	
4520	34888	A	4561	1	786	
4521	34889	A	4562	3	14073	

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4522	34890	B	4563	58	1282	
4523	34891	B	4564	1	684	
4524	34892	A	4565	1	1356	MGRKYTLKWEFEEGFTEKKEL KKVTSEGYITPVEIYDYRQYCY ALQRPIATTQIDDVRDGHTRRL AKLEKQEQTHSKASRRQEIIKIR AEPKEIETQKTLQKINESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDKGDITTNPTETIQTIRE YYKHLANKLENLEEMDKFLH TYILPRLNQEEVESLNRPIGTSEI EAIINSLPTKKSPGPDGFTADFY Q\MLEVLARAIMQEKEIKGIQL GKEEVKLSLFADYMIYVLENAI ISAQNLLKLI/SNFSKVSGYKINV QKSQAFLYINNRRQTESQIMSER PFTIASKRIKYLGIQLTRDVKNL FKENYKPLLNEIKEDTNKWKKI PCSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFI WNQKRACITKSILSQKNKAGGI MLPEFKLY/YQGSSTQTAWYW
4525	34893	A	4566	1	1102	MANCDINRKDEKGGKEKKDRS KSKSLMDTLKRQLSAKQKPKG KAGKPSGSSADEDTFSSSSAPIV FKAVRAQRPIR/STSLRSHHCSP MPWPLRPTNSEETCIKME/PSPP LNGVRKDFHDLQSETACQEQ NSLKSSASQNGDLYRLDEHVP VVIGLLPQDYIQTVPPLDEGMC PLEGSSSYCLDSSSTMEVSVVPS QVGGRSFPEDSQADQNLVVA PEIFVDQSMNGLLTGTTGVMLQ SPRVGPHHVPPLSPLPPMQNN QIQRNFSGLTGTEAHMAESMLC HLNFDNFNSAPGVARVYVSVQSS GPMVVTSLTEELKR/LAKQGWL WPPLKSVRRCVLARRSLYTKQL NQEEGTELNLGSSCLLC
4526	34894	A	4567	364	661	PFHFTCFCKVYFADPGSAARS VPGSPSAVCAQCILCTGHCAVC PGLGEHHSSGRTLMTKLHSLK KLKPCYLLC*SKN*KTQGGSPK S*NVNKYLVTLI
4527	34895	A	4568	53	470	CISIIIPGPSAKTLPVLSLSSPY TASFQPTFVRTFSHQTTYLSLGS VPVAQLKCSAGQQRGELLARR GVWGSWISVSHFTEIATLPAAC LEDGE\DFNLGGILDSSKYL*SIQ KTNTHRIVDGKVVSETNITDVL

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4528	34896	A	4569	1	1635	MGWTCKILFLVAAATGAHFLV QLVQSGAEVKKPGASVKVSCK ASGYTFTYCYLHWREPVSFICG RCILLTLLGDCWEGAWTQ GDVLQPSDRASFLAMGVNTTG QQVGDLSGDFPNSVGKACKCR EFHTLTPLAHTSSTTHETFPGMS HIALELSQGSSLLQCLEAQTQG QRQELTVSANEQPESRGHGCVL LCETQSEGKSVRAQAQTSKGS QKRLGGARTLCTGLSPGQRKQ ERSKIDTLTSQLEKEKQEQTYS KASRRQEITKIRAELEKETQKT LQKINESRSWFFEKIYKIDRPLA RLIKKKREKNQIDAIGNKGDI TTDPTEIQTTLRQYYKHLANK LENLEGMDKFLDAYTLPRLNQ EEVESLNRPTGPEIEAII/STPT KKSPGPDRTAEFYQ\RSDVLA RAIRQKKEIKCIQLGKEEVKLSL FADDMIVYLEIPIISAQNLLKLIS NFSKVSQYKISVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTKDVKDLFKDNCKPLLN EIKEDTNKWNIPCS
4529	34897	B	4570	1	429	
4530	34898	A	4571	1	897	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLNECWVKNMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKNKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYNLIKDIY DKPTANIMLNGEKLKAFTLRTG TRMNQGCPLPSLLFNI/VLEVL ARAIRQEKEIKGIQIGKEEVKVS LFADYVIVYFENPTDSSRKLEL IKEFSSFWIQD
4531	34899	A	4572	1	1461	
4532	34900	A	4573	49	365	
4533	34901	A	4574	45	534	VCHLEPGERCGPSRGCRVGV QTEKMQTAGALFISPALIRCCT RGLIRPVSAFLNSPVNSSKQPS YSNFPLQVARREFQTSVVSRI DTAAKFIG\AGSATVG\ADSGA GIGAVFGSLIIVYARKLSLKQQL LFYAILGF\ALSEG\GLFCLMV AFLILFAM

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4534	34902	A	4575	98	624	DWYSRSHPKELWEGSKKKKSN HSACSLQAHGGPISTSLNPHSKP RGRVSPPPGKRQQECRARPGRS PELAGPPPANVQETSQKNACAS RLSEPPGEGP\EPAAHPQPHIRGS SSGPCSRGGYRQPLFPGPAASG VPASGSV/RSRIPGAPQGVALAR RGPQGSPPAPRFFPATERQS
4535	34903	B	4576	1	604	
4536	34904	A	4577	3	331	LAPAPSAAWRTGLKALTSSST WMLCASE\HHVSGSGCVGDHLA GCRQEKTLPCQR/YCVFCRRRR ARSLQAQCGFSLTPALELLPVPF LKLLCPGPPRRRRICRILPGAGL
4537	34905	A	4578	1	871	
4538	34906	A	4579	3	510	GPPSRVDDFVAAAAA\AVAPVV LYACPRHSPIPPWSIRGRRVVVT GFGPFGEHTVNANWIAVQELE KLGLGDSVDLHVYEIPVEYQTV QRLIPALWEKHSPQL/VVHVGV SGMATTVTLEKCGHNKGKGL DNCRFCPGSQCCVEDGPESIDSI IDMDAVCKRVTTLGQCI
4539	34907	A	4580	1	285	MAPGALPALGEEEGPGASGLSA ELGHLSAGSRAFRETSVDSALD TPFPAGTFVRLEFKLRQTESGR RKDWKKPKCKVQPERRKQKCL TCVKLEC
4540	34908	B	4581	1	228	
4541	34909	A	4582	1	697	MGLERPVD\RMWLP\GALWNS AVVSAPVGEEWALAGTGNQGL QDIQGMHCPEEGISQIHGRDHR NAKDSHTGVWCSTLGIISTIIIR PKCRFSIDRSDSDYLTSSCRRD PGGAEP\QDRPRVEQLCSVLAN RSGPLAKCHWYESPVSYTQVC VSDLCQYGTGNRMLCTMLEAY VQLCALRCALPARVASQPGMQ LRVACPANSYYDSCGPPFPATC ASLNSSAPCTLQCTVSCFCLEGF ALEAG\SSVPHACCGCHLQGRY I/APGPWPSATGMRAPCPTTRC VSLTSASMARATACCAPCWRP TSNSAPCAARCLPAWRASLGCS YVWRVQPTATMTPVGHPSRPP VLASTPPRPAPSSAQ
4542	34910	B	4583	1	208	
4543	34911	A	4584	2	230	

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4544	34912	A	4585	106	669	GCGCVLLPGGVGAPGHSPEGP VPPRDARQLRTCGLAGTLHLST SCGHPTGAWRGALGSQWNGH NPVQDHLQEAQPWFLEFDRG* RCFWRMATSFPRYPTWDDY*R LPCCRCLPQCKKPAETTGCLPIS GEKTHGGVGDLLGEAPARLRQ WASQRQPATDLPA*ASRGRPA* GK DTHRACVAGEAAQDA
4545	34913	A	4586	2	597	TPKGGIRLGLAKLGCPTAWINP YGRGMPLAHSVLSGARVLVV DPDLRESLEEILPKLQAENIRCF YLSHTSPTPGVGALGAALDAAP SHPVPADLRAGITWRSPALFIYT SGTTGLPKPAILTHERVLQMSK MLALSGATADDVV\YTEVLP\Y HVMGLVVGILGCLDLGTSLAS YGLRVYFILWSVLGPSRRTLCL
4546	34914	A	4587	9	573	EEEEERKKKK\KKKEEEEGEEE GGGMGEKKKKKEEEEGEEEGE KEREKER\EKERKKKKKEERKEK ERERKKKRERKKKEKERERKEG EGERERKSTECTSSSY\IKKLVV KQPQAAPSGEIPPEGIAVLGGDS SMPVIVPEDLPVGQDVEVEDSD INDPDSLILVSSQAGGGGVITAY CNLEHLGSSDPPT
4547	34915	A	4588	1	297	
4548	34916	A	4589	114	752	DGSAAPRATSDSFTYTVCVSEF PVDDFMELGRSIPDTQL/DAVIE SQKANQCAVLIYT/SGTTGIPKG VMLSHDNITWIAGAVTKDFK/P TDKHETVVSYLPLSHI/AAQMM DIWVPIKIGAL/IYFAQADALKV RLSKDLGSDFILLGSPVGLRPST KRLPVLSKLGHTYRRVVWVEE SSGPHTISNQNNYRLQGPMMK LKRHFVAQKYKKQIDHMYH
4549	34917	A	4590	1	837	MVTQKLPNAQENLKHAERQAA GCCPGRSHIFQHVGPAGESLR GEGCSTHPEAQGAQERCEQWK KDQHWCLASHTDVTQQWGRH IVQEGGTHRGPSAVLSLRTALD EG/ARGGCSHPITAQLPLQLRHL PRPPPAPAR\PSPPAATSPT\P PPAPAR\SSPAPPAATSPTASSG ACAALPQLPLQLRHLPRPPPAP AR\SSPAPPAAMSP\RPAPARP RLRRSTACATALRPGERGSAAA QPGARSETSCRLG/AAA AVL D PAFISSQALACPVVGV I

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4550	34918	A	4591	3	377	
4551	34919	B	4592	1	1632	
4552	34920	A	4593	1	1224	MDGTNRFFLYLVWETERQQDV EHVARCILCYDKCRPDPECPAG TPGPQEVVDVLFVVDSSYGV DADVYRGSLSLADALEDLEV AEQPGASHRGARVALVTHHTP NF\GRGFHLTTYGNRKQMQRH VREASARPLQGTAPPGHALEW TLENVLLAAPRPRKAQVLFIV ASETSSWDREKLWTLSEAKC KGITLFLVALGPGVGTHELAEL AELVSAPSEQHLLRLQGVSEPE VNYAQGFTRAFLNLLKSEQSPG TGAPWVEWGEGFTEPGIWACR WTNQYPPPELTEECGGLHRGD TVLQLVTPVNRFMYYAAKENS KRKTKANFHLLAVELEDESYFR AYYEGTLYEVSALPLQRSNELL QKWSLFHGSNGRRVSGSHPEV ALQQGGTGLPAVLVWQLWRQ
4553	34921	A	4594	266	556	HKVQQICYRLRLVSQILFSINQT LAERQIVTFTVYPDTERDRETR NLADLKQIKIDLGKFSNDPDGY IDILRGLRQSFDLTWARDIMLLL NQTLAPN
4554	34922	B	4595	1	735	
4555	34923	A	4596	70	624	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLGARGIREAAK ALDKYVYQSQYCGFLQPDQKL ATQGKKGMGVHGVKRRSS*M ASVLPGNLRKRRQAHLCLVLAS NCDEPMYVKLVEALCAEHQIN LIKVDNKKLGEWVGL\CKIDR EGKPRKVVGCSGVVVKDYGKE SQAQDVIEEYFKCKK
4556	34924	A	4597	145	682	SWRNRTVSNGSAYSSSVHLCF AECKALCGERILTDGSDVSRPTI AAGGVTDVNTALQEV\LTALI HDGLAR\GISRTWPKAL\DKRQ AH\LCVLASNC\DEPMYVKL\V EALCAEHQINLIK\DDNQET* EKW\GLCK\NDREGKPRE*WL VGS*CSSLRTIGKESQAQDVIEE YFKCKK
4557	34925	A	4598	252	590	RSLLDLVWWQLSGGLAGSAKPK PCTPVKQSTVMSFSPSHKEQYFL MDGKKK/YDKESKEYYSILEKH LNLAKKKESHQENSSGPSVS TKLINLFSKRLCAFLPAQLTPY SFCS

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4558	34926	A	4599	1	1662	
4559	34927	A	4600	4430	4904	LIKGTRCLGRRPSFAYSRSN1*A *S*P/EGTSAQLAELLALTLALE LGNGKRINVYTD SKYAYLILHD HAAIWKERAFLTSGGTPIKYHK EIMELLHTVQKPKEVAVLHCQS HQESSPLEDTTTAGPLLHPYP AGSSPERSSPSSQQLGDLFRGII
4560	34928	A	4601	1	2630	MEQANHPVRLINVC KD TLKKI VQETSCPLTHVHYAEAITGRC TAPEDKGS LDQKPPTDDPTGCP WQVPAHVITLTETWVCLTIEGQ EIDFLD TG VQKPNGQWRLVQ DLIPIKEA VIPLYPVVNPYTLIS QIPEKAEWF MALDLKDAFFCIS LHSDSQFLFAFEDPTNHTSKITR TVLPQGFRDSPPLFGQALAQDL GHFSSPGTLVFQYVDDLILATSS EASCQQTLDLLNFLANQGKV VPNLWGKLP LN TTRKSWSYCT QCKNPRRWQSYTAKAIKKQLA EAGPVTAI LLLIFGPCIFNLLIK FVSSRIEAIMLQMV LQMEPQMS STNNFYQG PLDRCTDPLSGLES SPRCSEAPCLMSQWTGDIEYDL LLPPIPHQT TLCDLQNLKGIFSR YHRKWYGEILALLTPTANVCG HSQVPHACSIYHDPVTWNPQG LLPKSLYGVT KWGDKEHFEWG SQQQRAFYELK KKLMSAPALG LPDLTKLFTLHVSDREKKMAV RVLTQTMGPWLG PVAYLSKQL DGVSKSWPPCLRALAATALLA REVDKLT LGQNLNIKAPHAVV TLMNTKGHHWLMNARITRYQS LLCDKPHITIEVCNTLNPTLLL VSESPVEHNCVEVLDSVYSSRP NLRDHPWTSVDWELYVDGSSF INPQGESVWGHIQGRPIKLWG KRRKVSARDLAIIGGSVEAPKL
4561	34929	A	4602	1	506	FLALTSRFLFVLLNEETRSHLEK SLCWKVSPHIKMDLLQWIQSK AQSDGSTLQQGSLEFFSCLYEIQ EEEFIQQALSHFQVIVVSNIA SK MEH MV \SSFCLKRCRSAQVLHL YGATYSADGEDRARCSAGAHT LLVQLPERTVLLDAYSEHLAAA LCTNPNIELS LYR
4562	34930	A	4603	3	381	
4563	34931	A	4604	3	483	
4564	34932	A	4605	3	410	

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4565	34933	A	4606	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
4566	34934	A	4607	2	481	LAPLVKEIHDNFGMGEGLMTT GHAIATATHKTADGPSGLWRD\ GRGAHQNIIPASTGAAKAVGK VMPELNGKLTGVAFRVPTANV SVVDLTCRRQKPAKYDDIGKV VRQAPGGLKILGYTEHQVVS SDFNSDTHSSTFDAGAGIALND HFATLSPPPH
4567	34935	B	4608	79	278	
4568	34936	A	4609	2	1201	PSTACRNSARACSTVSRIFFCVA SRATSLRTPMGKVKGVNGFG RIGRLVTRAAFNSGKVDIVAIN DPFIDLNYMVYMFQYDSTHGK FHGTVKAENGKLVINGNPITIFQ ER\YPSKINWG\DAGA EYVLEST GAFTTMENAGAHLQGGAKRVI ISAPSA\D\APMFVMGVNHEKY DNSLKIISNA\SCCTTNCLAPL\ KVIHDNFG\I\VEGLMTTVH\AIT\ ATQKTVDGPSGLWALMGPR GFFQEHQSLPFTGGC/ARVVGQ GSSPELARGKLTWAWAFRCPCQ LPKRVNGWDL\TCRL\EKPCPK YD*HQGRVVKAGRRKGPLQGA ILGLQLSNPGGSPGLSTSDNPL LPPFDAWGLAFALQRTFHCSKL IFLGIDNGILGYSNQGGWDLHG PPWPTWAFQGS
4569	34937	A	4610	61	226	WRIMPTKKVMITMGRTTQRRM LES/SQQFWPCHLH*KLVPSCLQ LGCLVFHFRER
4570	34938	A	4611	153	495	QHAAECKAHAGLPGLPLPARK LASRHGAPRWQSGVGGGKV ENYGRRL\PGTRHPQSLSHKP AKKIDVARVTFDLYKLNPDIFI GCLNMKATFYDTYSYDLHC CGAKRIMK
4571	34939	A	4612	1	643	
4572	34940	A	4613	286	698	ESDNNLTQGTSI*QGTRHPQSLF PLSPAKKI*CGPVLTLTCYKLN PQGLSLGCLNIEGRFFMDYVIPF PIDLALLGAKRIMKG\TLHWA LFSMQTTGPRA/VFTSCYLQQL LDATEDGHPPKGKASSLIPTCL KILQ
4573	34941	A	4614	59	294	
4574	34942	A	4615	1	2253	

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4575	34943	A	4616	2	197	LARSGMGFYRRGLLGEVKGRV EGNRMWHVIVRTSPNHRYTFT LKTHPSVVPGSIAFSLPQRPWS
4576	34944	A	4617	302	441	
4577	34945	A	4618	944	1257	RLPFSPRSVGPTPQAPRLLCNG WRQLPTTFFTELEKTTLKFIWN QKRALIAKTI/LKPKNKAGGITL PDFKLYYKATVTKTARFLLYK VSQIDNTDLFDPVKIKFE
4578	34946	A	4619	1	1370	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQGMQGWFNIRKSM NVIQHINRTKDKNHMISIDAEEK AFDKIQQPFMLNTLNKLGIDGM YLKIHRAIYDKPTANIILNGQKL EAFPSKHGTRQGCPLSPLLFNIV LEVLRARIRQEKEIKGIQLGKEE VKLSLFADDMMIYLENPIVSAQN LLKLIGNFSKVSEYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SIRIKYLG*ALTRGVKDLFRENY KPLLNKIKEDTNKWKNI PCSWV GRN\NIMKMAIL\PKVIYRFNAIP IKLPMTFFTELEK\TTLKFIWNQ KRARIAKSILRQKNKAGGITLP DFKLYYKATVTKGAWFQHHK HTLIKEPLLDVFSFNPDPHGK KQDKQPQTKNIANASADSKNT QQMNGFVTGAATSFIPKDRITAS SLCGCTGRRRQSVAKYLRIRPHI NVPSFTYYK
4579	34947	A	4620	2	671	WHQNLALTRASGSFHS/WEEG KGGADMSHEICVANLQVYVRS TDFDRTLMSAEANLAGLFPNE VQHFNPNISWQPIPVHTVPITED RLLKFPLGPCPRYEQQLQNETRQ TPEYQNRSIQNAQFLNMVANET GLTNVTLETIWNVYDTLSCEAP SPPWGRKPPLERLWPRPRELTC PLRYT\QTHGLLLPPWASPQTV QRLSQLKDFSFLFLGFIHEQVQ KARLQG

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4580	34948	A	4621	1	1923	DSVAFEDVAVNFTQEEWALLG PCQKNLYEDVMQETIRNLDCG HETEFVEYENLRDPMNMLHT TDGPHKCKICGKGFDPCSSLKS HERTHTGEKLYECKQCGKALS HSSSFRRHMTMHTGDGPHKCK ICGKAFVYPSVFQRHEKHTAE KPYKCKQCGKAYRISSSLRRHE TTHTGEKPYKCKCGKAFIDFYS FQNHKTTHAGEKPYECKECGK AFSCFQYLSQHRRTHTGEKPYE CNTCKKAFSHFGNLKVHERIHS GEKPYECKECGKAFSWLTCLFR HERIHMREKPYECQCGKAFT HSRFLQGHERIHTGEKPYECKE CRKAFSWLTCLLQHERIHTREK PYEGKQCGKAFTHSRFLQGHE RTHAKKLCECLSTVSARKSVD LIIASYPLFLNLFSTPKTLRNC SYRRHERMHTGEKPYECKQCSKA LPDSSSYIRHERTHTGEKPYTCK QCGKAFSVSSSLRRHETTHSAE KPYECKQCGKTFHHLGSGFIHM KRHTGDRPHKCKICGKGFDPRPT LVRYHERISTGEKPHECKQCGK AFDHLGSGFRHMRHTRDGP HCKKICGKGFDCCSTLQSHERT HTGEKKLYECKQCGKALSHSSSF RRHMTMHTGDGPHKCKICGK
4581	34949	A	4622	1	256	MKGSGFKYAWALYKQKAEE RGVTIDTSLWKFETSKCYVTIK DFIKNIITGTSQQGQTASVAFC ILSSCPASWKNQVSHRLGG
4582	34950	A	4623	173	717	SINAVASTRTIEKFEKEAAEM GKGSGFKYAWVLDKLKAERERG ITIDISLWKFETSKYYVTIIDAPG HRDFIKNMITGTSQADCAVLIV AAG\VGFEFA\SICQNG\QTREH ALLAYTLGVK\QLICRVNKMD STEPPYSQRYEEIVKEVSTYIK KIGYNPDTRAFVPIISGLNGDH MLEPKC
4583	34951	A	4624	3	525	GCPSPGPHRCVAGHGAPGAVC RHVPTAWPGYSRCPGPGPRGV EAVGHQRHRAPETHSTPAADR HRRGLPGS\KSDSAMEPSPSPAP QAQPPKPVPKPRTVFGGLSGPA TTQRPGLSPALGGPGVSRSPES PRPPPLPTSSSEQSSALNTVEMM PNSIYFGLDSRGRAQAAQDK

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4584	34952	A	4625	2	448	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFFKKAVNFA DAAAQGP LLPAMVNPTMFFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFYKGGSCFH RIIPGFTCQSGDFTRPTA
4585	34953	A	4626	1	751	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILP\L FADKVPKTAGV*FFFKQKIFRA LSTG\EKGFYKGFPAFHRIIPG FMCQGW*LSHRHNGTGWQVH LMGRNFEDENFILKAYGVLGS LSMAKCLDPTKIGSPVFPSCA KT\EWL\DGQALWCFGK\VKKG LNIVEAMERF\GSRNGKTSKKI TIADCGQLE
4586	34954	A	4627	3	615	PECIIGIDILSSGQNP HIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALG LLLGF GGN*TFDY
4587	34955	A	4628	3	354	DSWA\VANGLA\GWS\GTWKK HDWKI\NDNEIWGK\SMWIDLS EWSKTVKIFVSHESAHHIT*KSS AEEDFNNQVDRMIHSVDTT RPL SPATPVIAQWTHEQSGHGGRD GGYTWAQQHGL

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4588	34956	A	4629	281	1529	VRVLSPVKEKELKLWKNTHKLL SYPTVGA AVTQLQNL TAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLP G DPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNP HIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYHIL GGTVEISATIKDLKDTEAVTPTT SPFNSPIWPVQKT DGSWRMTV DYCKLNQVVTPIAAAVPDVVS LLEQINTSPGTWFEWSPK\KAL QQVQA AVQAALPFGPYDPADP MVLEVS VADRD AIWSLWNAAI GESQRRPLGFWSKALLSSADNY SPFERQL LASYWALVETERLTV GHQVTLRPELPIMNWVLSDPSS HKVSGAQQRSHK LK WYIHDW
4589	34957	A	4630	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGCWRL QKAGE
4590	34958	C	4631	122	325	
4591	34959	A	4632	1	346	MAGEKVEKPD TKEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQGAL
4592	34960	A	4633	115	905	EAFTLHFCCLGLRQGT RMA GEKVEKPD TKEKKPEAKKVDA GGKVKKGNIA\KKPKKG\RP CSRNPVLCSEGFGRYSRSAMY SRKAIYQEGSTFSPLKSKVEKK KKEKVLATVTKPVGGDKNGGT RVVKLRKMPRYPTEDVPRKL LSHGKK\PFSQ\HVRKLRSITP GTIL\ILTGRHRGK\RVVFLK\QL AKLAYLLC*LGPLVLNRVPLRR THQKFCHLPLSTKIDISNVKIPK HLTDAYFKKKLRLKPRHQGEI
4593	34961	A	4634	2	350	FVALAAVLCRQCLPRAWVCR AGQSGRHYRAAICAELKKPLT IEEVAP/DPVGPHEVRVDVHFC GVNFGDILICRDQYQERPHLPFT PGPVADSRKGLPIRSCPPYNL WHCDFCS

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4594	34962	A	4635	1	556	MGLKLNTHMDQTRGSLSGDTL EGSPSKRAKIIILKRGGFRGILGG VGVQERRTGQRPALPCHDLRR AEVVPDHRRGGPRPVGPHEDL WQIPEKVSLQEAAVLPITYGTE SFALEHRARTQPGEIVLVTA GATGLAVMWQQISSGQGNIAA AGSDEKCKLAM\EKGAQSSVN YSQGSLKDSATDQ
4595	34963	A	4636	1	142	
4596	34964	A	4637	2	368	
4597	34965	A	4638	2	504	HKVGHQAQHSFITWKWYTRD WSRAGPEGTVGPYDQLTEEEK TRAWFTDGSARYAGTIRRWTA AALQPLSRTSLKESGEGKSSQW AEVRAVHLVVHFTWKEK*PDV RLYTDSWAVANGLAGWSGTW KKHDWKIDDNEIWGRGMWIDL SEWSKTVKIFVSHESAHHIT
4598	34966	A	4639	182	840	RTAVKGNLPTTPVI/SQWAHEQ SGHGGRDSGYTWAQQHGLLIT KADLAMTTAECLISQQRPRLS LQYSSIPWGNQPATWWQIDYIR PLPSWKGGQSQDSQDRSRNQGV KVKVAPLTITPSDTTAKFLLHV PAALHSAGVDVLVPEGGMLEPP GGTTTIPLNWKLRLLPPGHFGLLI PLSQQAKKRVTVLAVIDLDC QDEISLLLYNRDAKELYRYTAH
4599	34967	A	4640	3	283	SRVSCSPPLSPPPPLSPPPLSPP PLSPPPPPLSPPSPPPVSLPPP PPVFSFPSSCP/PPFPPPLPLPPP PPLSPPPPPPWSPSPPI
4600	34968	A	4641	1	531	MGSSHCTQPGMLAAVVGQAVP GTDGTGADSVLSASCCHQHAIH CAQAIRAKGHLQAHTELPSAPT QPPSCARQCPSGGDLGGRELY NNHEIRSGKHIGVCISFANNRLF VVSIPKSKTKEQILEEFIKVTGS YWVLGLSFD FRKWPV/GQCCQ SFHGRLRATPARRAERRDARF AL

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4601	34969	A	4642	115	2405	ATAEGSGSSGVKERGAGIRKAE RRRTEASGGGGGRGRRRSWRR AGAEGVSEADARGRGKGREG KGGSRGGARAHRRERARRRVEL DRVCCQRRELPPFYNSSTRAG HREQRARVSRNPIPSDRISPPQP NGEISGNMATEHVNGNGTEEP MDTTSAVIHSENFQTLDDAGLP QKVAEKLDEIYVAGLVAHSDL DERAIEALKEFNEDGALAVLQQ FKDSDLSHVQNKSAFLCGVMK TYRQREKQGTKVADSSKGPDE AKIKALLERTGYTLDTVTGQRK YGGPPDSVYSGQQPSVGTEIF VGKIPRDLFEDELVPLFEKAGPI WDLRLMMDPLTGLNRGYAFV TFCTKEAAQEAVKLYNNHEIRS GKHIGVCISVANN\RLFVGSIPK SKTKEQILEEFSKVTEGLTDVIL YHQPDDKKKNRGFCFLEYEDH KTAAQ\ARRRFN*VGKVQGF GNVGTVEWADPIEDPDPEVMA KVK\VLFVRNLANTVTEEILEK AFSQF\GKLERVKKLKDYAFIHF DERDGA VKAMEEMNGKDLEG ENIEIVFAKPPDQKRKERKAQR QAAKNQMYDDYYYYGPPHMP PPTRGRGRGGRGGYGYPDDYY GYEDYYDYYGYDYHNYRGGY EDPYYG YEDFQVGARGRGGRG ARGAAPSRGRGAAPPRGRAGY SQRGGPGSARGVRGARGGAQQ
4602	34970	A	4643	2	369	
4603	34971	A	4644	1	1002	MNAGCGQTHDCAYRQKRPED VNEEGRLEQRNRKRQDEWGPR DKPASSGYKAGTLDVENWNRA GEGLKHAHQKGLKVDSSAFCT CSLIRTVLMPLSPYYSAGQAE SKNLKESVVPPTASIENKKQER EDKNWPILPPPVAETSVPPPSVA GIETPIQRILRSAAIAGEPSGPCA FPISVRPDSNNPQQFIHEHTPLEF KLLNELKTSVVNIGVQSPFTLG LPESAFGAMRLLPFDVKHVAR TCLSASAYLTWNLNGQEMCTD QVRQNRAAGHGDI AEDMLLGN GP/YFRPGTSNGTKRAWATIPEE GVPVQSFLPFMEGSQEPSAQFL ARLREAV
4604	34972	B	4645	1	575	

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4605	34973	A	4646	1	776	VVLMRNLMMSGTIFSM LANISML GSLVIIQYITQEIPDPSRVPLVA SWKTYPLFFGTAIFS FESIGVDL PLENEMKNARHFPPILTLGMPI VTTLDIGMAALGYLRFGD\DTK GSILSLPICWYLHGLSGEGPSQ SFSERETKAQVIVPRSEVNVP RR PVSEHSGRGEQLCGLSCRLYQS VKLLYIAGILCTYALQFYVPAEI IIPFAISRVSTRWALPLDLSIRLV MVCLTSAPMTRSTPFCKYSTRG RRRWLEIPV
4606	34974	A	4647	1	1294	MGKDFMSKTPKAMATKTKIDK WDLIKRKS FCTAKETIIVNRQP TEWEKIFATYSSHKELISRIYTE LKQIYKKKTNNPINKWAKDMN RHFSKEDIYASKKHKMKCSSSL AIREMQIKTTMRYHLTPVRMEII KKSGNNRQPIVGPCDNSVILLY KILANRIQQHIKKLIHHDQVGFI PGMQGW FNTCKSINVIQHINRT KDKNHMIISIDAEKAFDKIQQPF MLKTLNKL GIDGMYLKIHA IYD RPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGSQLGKEEVNLSLFADN MIVYLENPIISAQNL PKLINNFS KVSVC KINVQKPQAFLYTNNR QTESQIMSELPFTIASKRIKYLVI QLTRDVKDLFKENYKPLLNE/I K/EDTNKWK NIPCSWVGRINIV KMAILSK
4607	34975	A	4648	2	711	WNRRRPCIAKTIL/SQKNKAGGI TLPDFKVYCKSTVTKTAWYWY QNRHIDRWSRTETSEITPHIYNH QIVDKPHKNKQWGKDLLFSKW CWENWVAICRKLKLNLF LTRY TKINSRWIKDLHEKLKTIK TLEE NLGNTIQDIGIGKDFMTKMPKA IATKAKIDK WDLIKLKS FCTAK ETIIRVNKQPT EWENISAIYPSD RSLISRIYKEVKNIYKRLDAVA HTCNPITLKGQGRWIT
4608	34976	A	4649	1	576	
4609	34977	A	4650	1	771	

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4610	34978	A	4651	1	887	FPEDSEPISSHGNYTKQYPV FV GHKPGRN TTQRHRLDIQMIMIM NGTLYIAARDHIYTV DIDTSHT E EIYCSKKTAW EILDRPMVATCR MKGKHKDE\CHNFIK VLLKKN DDALFVCGTNAFNPSCRNYKM DTLEPFGDEFSGMARCPYDAK HANVALFADGKLYSATV TDFL AIDAVIYRSLGESPTLR TVKHDS KWLKEPYFVQAVDYGDYIYFF FREIAVEYNTMGKLLGLHHELL RRTQDYGHKAGCPESCLLSVRR CPPPQSKAHRESVEELIKGCRR HAGFCACGHITT
4611	34979	A	4652	1	2890	MVLLKVDPGLWGSSLRVLLKA DPPYGTQAH AERHGRALAGGL GVGEQSQSLDLLRMSHTY GAL FLPRAAVSSWCASVRIRKIKKSP LLDGAPLLYEPDTWL GKWSSS WTLVFTHPFS AALTHSALTARS DTGSLTSPDGKLYSATV TDFL AIDAVIYRSLGESPTLR TVKHDS KWLKEPYFVQAVDYGDYIYFF FREIAVEYNTMGKVVFPRVAQ VCKNDMGGSQ RVLEKQWTSFL KARLNCSVPGD SHFYFNI
4612	34980	A	4653	1	480	MEGV EEEKVPAVPETLKKKQ GNFAELKIK\PKMAFVL RIRGVS GVSPKVRKVLQLLRHQIFSGT FVKLN/KASVNMLRIVEPYIAW GYPNLKSVNELIYKRGYKINK KRIALTDNTLIVPSLGKYGILCM EDLIHEIYTVGKH FKEANNLLW PFLSSP
4613	34981	A	4654	3	279	
4614	34982	B	4655	119	177	
4615	34983	A	4656	157	359	HQRCRK**TKLEG*TCRKIEVN TDYIKP*E*EFWMIYYISYLT SI CSSICNENILQLENREKSRNT

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4616	34984	A	4657	65	900	GLAFPPILQKESHPCLWILFTSP VALSTSRPPCVISSAALCPRRHG FLPPRLLAPLAAAFCPRRRCFLP LPPRLFAPAPVDFCPRRCGFLPL PPRVFAVSCPRRRGLLPLLFAP SAAAFCGFLAPSPWLFAAFGTR CRGFLGLLVPAAAAFFPRRLRF FLPRLFSPAAAVTFCHPCFLPPP PRLSVPAAASFRRGFQQEIRTV EIRGSGTRVGLQHQTGHLPRGP SSLPAELHA*ARVSPLEASPPSC TR/WMQQPEDLGPALTGLRICG VGACWEL
4617	34985	A	4658	927	1157	ARRSTAPVDCK*LQP*AQAAL WVLVWDHEAARQPEGVVQPA PGLWPSSRRWRKFQAPGSSGV CHPGALQACPEELS
4618	34986	A	4659	1	563	MKLVAVFDDKQDLHHGGDDISA SSMHTQSPERFTSASELGTNNV SAFSVYQAASEIEVTSSVLHAS SQKGLSSQHLGFGAPQAGGGSF RHLAPQRKEVLEEYFKYDPEH KLIFRFVRTLFKAMRLTAEFAIE ITHGGRDVERATGLVNKIHRQG CGDSFCNIGGNAKPYVCCGKE YVSSSKHQNGIAI
4619	34987	A	4660	1	681	MGKYAEALRSQKAVLMSVR VMGIEHPNTIQENMHLALHCFT SRQLSLALSLLQGAHYLM/LLV LGE/DHPEVA/LLDNIRRVLHRV MEYDLSLCFLDNALAVSTKYQ GPKALKVALGHHLITSVYESKA EF\RSALQHQKEGLAAH/TSIGE DQEKTKESSEYLKCLTQLAVAL RRAMHEIYRNGSSNNIPPLNFT APSMASVLEQFKGINGILFIPLS QKDLESLKAEVAQ
4620	34988	A	4661	2	443	VWQSGGDSITSKTNITCVNCY LYTCIDSSFNQYHSILIVRARQD IWL PVALHRPWESSPFIVVINNI LQKILKRSTQFIFTLIAHIMGLIA VTVIAATAGVALRQSIQTVHFV DKWQKNSTRMWNS/QRIDQKL ANQINDLRQTVIW
4621	34989	A	4662	2	377	FAFTWTDPDTHQAQQITWALL PQGFADSPHYFSQAQISSSSITY LGIILHENTRALPADHV*LISQT PISSTKQQLSFLGMVRYFCLWI PSFTILTKPLY*FTKANLADPTD PKSFPHSSFRSL

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4622	34990	A	4663	1	1095	MAKAVLSKKNKTGSTTLPDFKI YYKDIVTEEPGIETLRHTSSTKF SKGLPSRESFSEKQNKTTTHLH PGEINSFIAHTKPAWRSHTDA HEIWCRSDSQVNSPGRSIPCPA LCSMRKIHLRPLVLRPASPRNIS PILNPLHLIAALLPNPKPPFRPPL VSPDLNPQVKDISTPSWATDHV HLTVSLKPYHPYPAQCQYPIQ HALKGLKPVITRLLQHGLLKPI NSPYNHILPVLKPKDPYRLVV QDLRLINHIVLLPIHPMVPNPYT LLSSIPASTTHYSVLDLKHAFET IPLHPSSQPLFAFTWTDPDTHQA QQIT*AVQPQSFTDSPHYLNQA QISSSVTYLGIILIKAHVLSLPIV
4623	34991	A	4664	655	2417	KKRESMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIQRQGW NICKSINVQHINRAKDKNHMII SIDAEKAFDKIQQLFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGKKLEAFPLKTGTRQGCPLSP LLFNIVLEVLAIRAEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDANKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFTELEKTTL KFIWNQKRAHITKAILSQKNKA RGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTQPSEITP HIYNYLIFDKPDKNKQWGKGS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKT TKTLEENLGITIQDIGMGMDFM SKTPKAMATKDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK VFSQPTHLTG*YPESTMNSNKF TRKKQTTPSKSGRR\NEQTLLK RGHLCSQKTHEKMLTITGHQR NANQNHNEIPSHTC

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4624	34992	A	4665	1	234	MQNQEKFGELISEWAPYGRPRP QIAVGDDHHISVYDGEVNW RMS SLQASAAGKDYANRGTEWGEE PSQMLRHELLSGEMCVSRNRG QPLANSERRSEALSPVTPKKLIP ADGHKSDPGRTWMKLETHLSK LTQEQTCKHHMFLISG*FAEN DGFQLHPCPS\GSLLWPSAGISF FGVTGLRASDLLSLLARGCPRF LDTHISPLSSS
4625	34993	B	4666	1	2553	
4626	34994	A	4667	33	272	
4627	34995	A	4668	1	3045	
4628	34996	A	4669	1	334	
4629	34997	A	4670	159	245	FPIVASPWLLC*LMSFAGTWVK LETILSKLSHGQKTKHRMFSLI DTVVGSDDFPLLRVPGCCASS LNAAHTSVNIKLELT
4630	34998	A	4671	122	359	TANLKNRKF*PIHLTKG*YPE STKNVNFTRKKQTTPSKSGQK I*TNTSQKTFMQPTGT*KNAH HHWSSEKCKSKP
4631	34999	A	4672	2	66	RLVYADTCFSTIKLKAEDASTS ENMRCLVFCACDSLLRMIVSSF IRVPTKDMYSSFFMAA*YLLQY HQVKSRRCFYE
4632	35000	A	4673	519	899	SALVCHTCSNWQVHLGDSVFY RSEEQPLEPLPFSYLSSLFPGHP DPVSSGSQQPS*MPHTDASVTS SHGLGGLAGRNSCIYPCCAPAL CADYLWGSPDLFLLLSFQHKG NVGVGLAHSPQFQQGN
4633	35001	A	4674	1	278	
4634	35002	A	4675	158	592	GYWWRPSFQSLRENNQCQRKS NSVNAGCLNCDHCVLGIYQQH *QNYFSFDIHYFLSETGRKVSSS I/AYFTIGETEALSGKVVPYWQQ AAGQGCTLHLLLPQTRLFPKGK RRQPGLLREF
4635	35003	A	4676	302	721	
4636	35004	B	4677	1	871	
4637	35005	B	4678	1	559	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4638	35006	A	4679	3	2386	RVATMAPHRPAPALLCALSLAL CALSLPVRAATASRGASQAGAP QGRVPEARPNMVEHPEFLK AGKEPGLQIWRVEKFDLVPVPT NLYGDDFTGDAYVILKTVQLRN GNLQYDLHYWLGNECSQDESG AAAIFTVQLDDYLNGRAVQHR EVQGFELAP\FLGYFKSG\K\Y KKGGVASGFKHV\PNEVVVQ RLFQ\VKGRRVVRATEVPVSWE SFNNG\DCFIL\DLGN\NIHQWC GSNSNRYERLKATQVSKGIRY NERSGRA\RVHVSEEGTEPEA\M LQVLGPR\VALPAGTEDTAKED AAN\RLAKLYKVSNGAGTM\ YVSLWAD\NEFTQGA\LKSED CFILDHGKDGKIFVWK\GKHAN TEERKAALKTASGFHSPRWY PKQIQVSVPFLEGG\ETPLFKQV FKNWRDPDQTDGLGLSYLSSHI ANVERVPFDAATLHTSTAMAA QHGMDDDG TGQKQIWRIEGSN KVPVDPATYGGFYGGDSYIILY NYRHGGRQGQIINWQGAQST QDEVAASAILTAQLDEELGGTP VQSRVVQGKEPAHLSLFGGK PMIYKGGTSREGGQTAPASTR LFQVRANSAGATRAVEVLPA GALNSNDAFVLKTPSAAYLWV GTGASEAEKTGAQELLRVLRA QPVQVAEGSEPDGFWEALGGK AAVRTSPRLKDKKMDAHPRL
4639	35007	A	4680	1894	2161	MFGLPNARAATSTAPFASHSLC LCFRILLLLGPGINLANPRNHLV LHQKFSILGRHFS\ATEEPCISL ALAPSKRWECNSSS*RYENN
4640	35008	A	4681	1	1803	
4641	35009	A	4682	1	501	MTFQCVVNTHYLTYP RPQRFL YLVVVRPSCASWIMFVLIDRGY VFSYFPQSYGGFGSRILSKPIEV QVGGRSVVAQMWSNCKGQYS DLASLGCISRYSAGSVYYYPSY HHQH/NPVQVQKLQKELQRYL TR/KIGFEAVMRIRCTKAKPTRH RHYGELEISITIIRAIGK
4642	35010	A	4683	350	623	

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4643	35011	A	4684	1	3252	PPGPERSRLGLGVSLHQRSCPK CIAVFTRVSEPRIQFPASRILPSS NTSKDFDPVSGQSNYGGSSQGS GQTLNRPPVASNPVTPSLHSGP APRMPLPASQNPATTPMPSSSF LPEANLPPPLNWQYNYPSTASQ TNHCPRASSQPTVSGNTSLTTN HQYVSSGYPSLQNSFIKSGPSVP PLVNPPLPTTFQPGAPHGPPPAG GPPPVRALTPLTSSYRDVPQPLF NSAVNQEGITSNTNNGSMVVH SSYDEIEGGG
4644	35012	B	4685	51	236	
4645	35013	A	4686	1004	1405	
4646	35014	A	4687	1	771	
4647	35015	A	4688	1	405	SENVDDVSVMVG/TPANKALL DTTGFWD/DFNNATPNDICVA IRSE/AADAGIAQAIMQQLAEA/ LKQQA/LDRNLNVMMFSDNVT LE/DEIQLK/TRAREKGLLV/MG PDCGTSMIAGTPLAFA/NVMPE GNIGVIGASGTGFR
4648	35016	B	4689	1	1656	
4649	35017	A	4690	1657	2259	LPQPQPATPWPSAPTPRFASPAA AMATLWSGTCRIRLWSGSSRA TRTAPAALIFPITALGSGQGAW TTRCAAGTCGRAASCSSMTSA/ AQIFSPCHCPNQDWLA VGMES NVEILHVGKPEKYQLHLHESCV LSLKFA PCGRWFVSTGKDNLL NAWRTPYGASIFQSKSSSVLS CDISRNNKYIVTGSGDKKATVY EVVY

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4650	35018	A	4691	62	1371	QNSTISVMLRSAMTTTMAAD LITAI/MGQRKQHIDTGFWHDD FNNATPNDICVAIRSEAADAGI AQAIMQQLEEALKQLAQSGS SQALTQVRRWDSACQKLPDAN LALISVAGEYAAELANQALDR NLNVMMFSDNVTLEDEIQLKT RAREKGLLVMGPDCTSMIAG TPLAFANVMPEGNIGVIGASGT GIQELCSQIALAGEGITHAIGLG GRDLSREVGGISALTALEMLSA DEKSEVLAFVSKPPAEAVRLKI VNAMKATGKPTVALFLGYTPA VARDEN/VWFGSSLDEA\SLAG CFSVRARSPLTRIDGMMILGMF GGCFAASLWANNVKLRMPRSR IRIMQAIIGGIIAGFGARLAMGC NLAAFFTGIPQFSLHAWFFANP LLIGQTLEDPHEYIDYLDKEFPL YQLVECVVSLNYSYHWECTEI
4651	35019	A	4692	1	1125	MEAEVDKLELMFQKAESDLDY IQYRLEYEIKTNHPDSASEKNPV TLLKELSVIKSQYQTLYARFKP VAVEQKETKSRICAGMTKTMN VIQKLQKQTDLDLSPLTKKEKT AAEQFKSHSFGMWPCCLKYRQ NKKKKKKLSQNRSTTWKLNNL LLNDYWIQNEMKAEIKMFFET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLAL QLKELEEQEQTHSKASRRQEIT KIRAELEIETQKNLQKINESRS CFFEKINKMDRLLARLIKKKRE KNQIDAIKNDKGGITNDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYNLPRLNQEEVESLNRPI TGSEIEARINSLPTKKSPGPDGF
4652	35020	A	4693	2	421	GRVGGRVGKIRT*LN*IETKKY KR*NETKSWFFEKIKMDRPLAR LTKKRIKEIQITSLRNETGNIITD TTEIHKIIQG*SSSSSSSSSSSSSS SS\SSSSSSSSSSSSSDTFKRPIT GIKIEMVF*KLPTKKSRISL

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4653	35021	A	4694	1	654	MEYYAAIKNNTFMSFAATWM KLEAIIISKLTKEQKTKRHMFSL VSTLELGALTALVRCGRWRRQ CDDEAMACVTQGRPLARLTKK RREKIQITSLRNETGDITTDTEI QKIIQGYDEHTYAHKVENLEG MDKLLKYNPPRLNQEELGTL NRPITSYEMEMIIKKL/PNEKSP GPDGFTAIFYQTFKEELVPILLA LFHKTEKEGILPNSFYEASITL
4654	35022	A	4695	1	786	MPPSLAYKNPRPQQADTQVA/T MSRGVHWRKKMQAAGPREDV KRSTQAEHTRHQHTSRHQL LLMRIFEMGWKKPSPFQEEIPI ALSGRDILARAKNGTGKSSAHD IPLLKRLDLKKDTIQTIVIVPTG GPALQVSQICIQVSKHMGGVK VVMTTGGTNSGDDVLRDDTV HMVIAAPGRILNLIKGVAKLE ETYL RHIGRPGHFGHFLAINLI TYGDHFNKLGIEEQLGKEIKPIP SNIDKSLHVAEFHSAVENEKP
4655	35023	B	4696	1	501	
4656	35024	A	4697	2	573	YSACFFLFSIAMGILLTVPPSFWI PTSFS AFLGFFSSFSLLVLHQPD FSFVLGLWRIISLLVLKIVEGSS NQGMQMASRSWEWPSSSRKM ATSVRTLPEP/GPSGCRAPSAFPF RKEAGADPSGCPGGRQVPLVAI GRGGALEPQRWELRAPGSAGR LPREGGRTFPGAQSPAGAQSPA GKQSPPGAQSPLH
4657	35025	A	4698	2	346	PPINISVPHC*PFGG/EPLEILIPAP ERSSHVLSQSPVRTHSSAVHQS VGASLNC GDKQPPNFSGSKIFF LIYLHLMTGQVRGSSVLCHPNT GIQKEGGTVNEIPAIIEKRKKHA
4658	35026	B	4699	1	468	
4659	35027	A	4700	2	284	ETGEFTQLKELNIQGNCWTL PELGNYLTGQKKVCKVENS PWTPIAGQFQLDVSCVSECVC SETYEYLYGQHMQVNP/EPPKH NNHKSGKD
4660	35028	A	4701	5	189	
4661	35029	A	4702	38	190	

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4662	35030	A	4703	2	882	WPSVSSG/PSSAVSFSSFDPGVA SCTSSSASGIQRPMASEVPCASG IPIKKIGHRGVDSSGETTYRKTT SSALKCAIQLCITHTVGSLDPTP ERHVLIEPLIELSSSGADGSLLH VSIHDEFIHKTVQHKQAEFLQKL IPGYHIDLNQNSWTLLPKFYGL CCVKAGGKNTQIAVMKNLLLR LNSEGERILLCIGITDILQSYRFV KKLEHSWKALVCDGDTVSVHR PGFYTERFQCFMCNTAFKKIPA RTLTPNAGKDVEQQELSSLLM GMRSGTATVEDSLVVS YKTKH
4663	35031	A	4704	2	410	
4664	35032	A	4705	2	728	
4665	35033	A	4706	1	1208	MKMEKVNTSWLLPPSSISVLIR RGAGSMVLLLQSQRYIFEYDS SDRLLAVTMPVARHSMSTHTS IGYIRNIYNPPESNASVIFDYS DGRILKTSFLGTGRQVFYKYGK LSKLSEIVYDSTAVTFGYDETT GVLKVMVNLQSGGFSC TIRYRKI GPLVDKQIYRFSEEGMVNARFD YTYHDNSFRIASIKPVISETPLPV DLRYRYDEISGKVEHFMITTAEM TLSKHFDTHGRIKEVLA/YEMF RSLMYWMTVQYDSMGRVIKR ELKLGPYANTTKYTYDYDGDG QLQSVACNDRPTWRYSEYELNG NLHLLNPGNSVRLMPLRYDLR DRITRLGDVQY/KIDDDGYLCQ RGSDIFEYNFNGAPT KTLSQAS GILQSLQGLHEVHRNPACSDFA
4666	35034	A	4707	1	663	MMLLLLALLGAGLLGASLLTS WHAPARNKIPRAQKWREEPDL DPKPILELPLAELAQQLRTEELS LESILCSYLKQALKVHQEVNCL MDFLGECEEELQALKKKKSE RGLLYGVPM SLKDTYDSMFLE KPATKDG VIMKVLKAQGAIPFV KTNIPLTLLRSLKRASWALNAA TPIYGQMLSPLNLKKT CGSS/G GDHGGWPHGPGRGEPGAVPCK

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4667	35035	A	4708	2	624	SDARLHKDDTDICFSKTLNSCK VPQIRYASVERLLERLTDLRFLS IDFLNTFLHTYRIFTTAADVVLGK LSDIYKRPFTSIPVRRARKLSLT SPLNSKIGALDLTTSSSPTTTTQ SPAASPPPHGTGQIPLDLRGLSS PEQSPGTQPEVSGSSPHSTAQSK IWSLVWKQYWLMAPSHALKT CHAARLARTFVTSSSATKVHCA ISLK
4668	35036	A	4709	1	195	
4669	35037	A	4710	1	1845	MAEAEPRPGERGGGGAGRAG GRPGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLISGK ILKDGTNLNQHGIKDGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGPPSGTGE GSPSATASILSGFGGILGLGSLG LGSANFMELQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLRNP/WSPSPPTSQAPG SGGEGTGGSGTSQP/GSGMFNS PEMQALLQISENPQLMQNVIS APYMRSMMQTLAQNPDFAAQ MMVNVPLFAGNPQLQEQLRLQ LPVFLQQMQNPESLSILTNPRA MQALLQIQGLQTLQTEAPGL VPSLVSFSGMSRTPAPSAGSNAG STPEAPTSSPATPATSSPTGASST QQQLMQQMIQLLAGSGNSQVQ TSEVRFQQQLEQLNSMGFINRE ANLQALITGGDINAAIERLLGS
4670	35038	C	4711	59	464	

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4671	35039	A	4712	1	1902	MAEAEPRPGERGGGGAGRAG GRPGGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGDKGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGSPSGTGE GSPSATA SILSGFGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNPELMRQTMELARNPAV MQEMMRNQDRALS NLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLPNWSPSPPTSQAPGS GGEGTGGSGTSQVHPTVLNPFQ INAASLRSGMFNSPEMQALLQQ ISENPQLMQNVISAPYMRSM QTLAQNP DFAAQM MVN VPLFA G\NPQLQEQLRLQLPVFLQQMQ NPESLSILTNPRAMQALLQIQQ GLQTLQTEAPGLVPSLVSFQMS RTPAPSAGSNAGVYPPRPPLPHP ATPSHIFSNRG/SPAPQQQLMQQ MI\QLLAGSGNSQVQTPEVRFQ Q\QLEQLNSMGFINREANLQALI ATGGDINAAIERLLGSQLS
4672	35040	B	4713	309	527	

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4673	35041	A	4714	1111	2506	KKDQRETRNQKGLGFLDRPQ WVSGKMKQECLQ/HWNAMAI NNHRAVAIFPKRRHGREDGLLS NLPTFGSYAPLRRVSNEFIASAV QRILLERRALPHGNCKLGGLTP QFMNRKNALVLEVLARAIQRE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKDLFKENYKPLLNEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFIWNQKRARIAKSILS QKNKAGGITLPDFKLHYKATV TKTAWYWFQNTDIDQWNRTEP SEIMPHIYNYLIFDNPEKNKQW GTDFLFNKWCWENWLAICRKL KLDPFLTPYTKIKSRWIKDINVR PKTIKALEENLGNTIQDIGMGK DFMSETPKAMTTKVKIDKWDL IKLKSF
4674	35042	A	4715	3	372	SVGVALRPWKRE/RAASERRSS SGGGGGGGGGGGGGGGGGSGS GQ/HAPAAPAGGIEAVNMAAS YHISNLLGVAAAAALAVTQALP PPSAVAGSFSAPKSPAHRSA GLPIPAEPLSSPLLQPPPP
4675	35043	A	4716	1	1008	
4676	35044	A	4717	1	2619	
4677	35045	A	4718	449	801	VLLLSSMSRRKCQSLYVDLLM KKETE*SMEKEKLTMHPLSCTH I*PRPQAPEADKQMRR*TEEQN CRMMWQKKEKEHLNAKRSLA GSGWRDQPLDGKAPGEDHLP IPSPFQLPIHPI
4678	35046	A	4719	1	1255	
4679	35047	A	4720	2	843	CLHGFGYRIRDSELQKIHRAAV KGDAAGVERCLARRSGDLDAL NK/TAQIAGAQPREEACTVILLE HGTNPNLKDIYRNTALHYAVY SESTSLAEKLHFHGANIEALDK VLSISFLSKILMSSLKTCGRDAE DYTISHHLTKIQQILERKKKIL KKEKRGKASESEFLNSLGGPTL DKKIRNVEISDESAVSILHEL CVDSLPA LDDEVLSVATKCVPEKV SEPLCRPSHEKGNRIVNGKGE GSEECLCPAAHRLRCGERLYLPP RLGCERLCLATTPSEK
4680	35048	A	4721	295	1050	

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4681	35049	B	4722	306	554	
4682	35050	A	4723	2	7973	
4683	35051	A	4724	2	316	
4684	35052	A	4725	81	228	DPPLCLGLL\LHRASIVQKRRIYF QDEGSLTKKLCEQGKTLKHSQ QMFFK
4685	35053	A	4726	1	1043	MELEWKVNVKVNSQDTNHHG SLQLARGEAAAVKFGRMSKKQ RDSLYAEVQKHQQRLEQRQQ QSGEAEALARVYSSSISNGLSN LNNETSGTYANGHVIDLPKSEG YYNVDSGQSPDQSGLDMT\GI KQIKQEPIYDLTSVPLNFTYSSF NN\GQLAPGIT\MTIEIIVAAEF PLIYKQSFLLTVLSFGGGGSVIC GPTFAKVSSRRFIHHGDKIQPS INALGWTfMEETPQIFKCRNT HGKELEHDLPEHSSQGSTRRK SSCLRRDNNPMLLSGGRFYEKI HNFITGTDFVRKMEHAEGKTS LVHVGFAQIKMPSSLKQEASNG LIKLEEASGARMKTGHIK
4686	35054	A	4727	467	584	
4687	35055	A	4728	1	1794	
4688	35056	A	4729	110	1797	PSQQEPGSGTSCRLRYCWTAQTL PSVTMKLWVSALLMAWFGVLS CVQAEFFTSIGHMTDLIYAEKE LVQSLKEYILVEEAKLSKIKSW ANKMEALTSKSAADAEGYLAH PVNAYKLVKRLNTDWPALDL VLQDSAAGFIANLSVQRQFFPT DEDEIGAALKMRLQDTYRLD PGTISRGEPLPGTKYQAMLSVDD CFGMGRSAYNEGDIYHTVLW MEQVLKQLDAGEEATTTKSQV LDYLSYAVFQLGDLHRALELTR R\LLSLDPSHERAGGN/LCRYFE QLLEEEREKT\LTNQTEA\ELTTP EGIYERPVLYLPERDVYESLCR GEGVKLT\PRRQKRLFCRYHHG NRAPQLLIAPFKEDEWDSPHI VRYDVMSEDEIERIKEIAKPK LARATVRDPKTGVLTVASYRV SKSSWLEEDDPVVARVNRRM QHITGLTVKTAELLQVANYGV GGQYEPHFDFSRNDERDTFKHL GTGNRVATFLNYMSDVEAGGA TVFPDLGAAIWPKKGTAVFWY NLLRSGEGDYRTRHAACPVLV GCKWVSNKWFHERGQEFRLPC
4689	35057	B	4730	1	2433	

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4690	35058	A	4731	425	1079	PMGTSFLYECANFQSVSLGDPQ EPSCLCGGQPQGAAGGSSGSED ALLCLWDLQARKWKFMSYTS GNIRGSSFCQFKSSFLVYFKALL KFRELFAQFKSFMGEKKLSLAP PMSDSSGDGHIRKIDYASCKRSG SSIRALPKTYQQP/EVLNDTWV SFPSWSEDSTFVSSKKTPYEEQL HRCEDERFEEMKTAGFASFGER SKTGVPNLRVTDWYRLVAC
4691	35059	A	4732	3	425	GASSEEAEAGASEGPAGPGGWG APGSQGAQEGGDLQEAESQE GGDPRKPRSPRKVERHRKAGA PGRDLGRPSLTVLL\NHCVLQR LRKIYHSSIKPLEQSYKYNELRQ HEITGQRCPCCEPKPQHQUERA LFVVVSENENI
4692	35060	B	4733	1	1056	
4693	35061	A	4734	171	511	LLSVRHVVRNTQETANDVQVW /LDREGGSKI\NTGVCFLDHMLD QIATAVSRME\INVKGDLIYDD HHTV\EDTGL\ALGEALKIAPGD KPGICRFGFVLP\MDECL\ACAL DISGGPH
4694	35062	A	4735	563	763	
4695	35063	A	4736	365	1644	RTSQMSSSAWRQQNRARPSSAI LPSSLSLGHLPALPQFSQRMPT ASQLPGMVGVLGYGQTAASP GSVSSCPACSSCCLGCWWPSS WPSCRLPHPLGRPIAHCLPE/VL TTTTTPTITTSQAAGTPKGQQE SGVSPSPQSTCGLLSGPRGFFS SPNYPDYPNTHCVWHIQVAT DHAIQLKIEALSIESVASCLFDR LELSPEPEGPLLRCGRVPPPTL NTNASHLLVVFVSDSSVEGFGF HAWYQAMAPGRGSCAHDEFR CDQLICLLPDSVCDGFANCADG SDETNCSAKFSGCGGNLTGLQG TFSTPSYLQQYPHQLCTWHIS VPAGHSIELQFHNFSLEAQDEC KFDYVEVYETSSSGAFSLLGRF CGAEPPLHLVSSHHELAVLFRT DHGISSGGFSATYLA FNATERL CLVESTSS
4696	35064	A	4737	1	154	

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4697	35065	A	4738	1	700	GSRPQFPGHTRVRASGWRPCSL KPQLLGVPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEV LIRLFK GHPETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AE\KPRGTVSNATKHKIPVKVT WRSSPECI\QVLQSKHPGDF\GA \DAQGAMKQGP GSCFRKDNWP PTYKELGLSRAKPLAGFPTPNPS WAPGFKRERGLISV
4698	35066	A	4739	1	154	
4699	35067	A	4740	1	617	GSRPQFPGHTRVRASGWRPCSL KPQLLGVPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEV LIRLFK GHPETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AE\KPRGTVSNATKHKIPVKVT WRSSPECI\QVLQSKHPGDF\GA \DAQGAM\NKALE\LRKDMAS NYKELGFQG
4700	35068	C	4741	46	522	
4701	35069	A	4742	78	617	TKELLHSKRNCHQSEQATYKM GENFCNLLI*QSANIQNLRQT*T NLQEK NKQPHQKV GEGYEQTL LNRRSLCSQKTHEKILITGHQR NANQNHNEIPSHTS*NGNH*KV RKQQVSYKLL*MRPRRTRQVT Q*RREPETSLAKETPGNPTNTN AKFKTRGARISHYSSGNGERLP RTVC
4702	35070	B	4743	1	6477	
4703	35071	A	4744	1	623	MSSDISEVEDKNEFLTEQLSKP QIKFNTLKD KFLKTRDTL\RKKS LALETVHNNLSQTQQQIKEMK EMYENAEAKENNSTGKWSCVE ERICQLQHENPCIEQQLLDDVHQ KECLPSRKEKFKSEPPAFLSGN QVKSSSLQTLFPDDLILYLE NPKDSTKKLLELINKFRVTGYK IKLQKSVAFLNDKNEQSKEENQ ECNPIYNNYK
4704	35072	A	4745	2	3272	
4705	35073	A	4746	1	579	
4706	35074	A	4747	3	510	

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4707	35075	A	4748	1	1261	MEAVDTFLVFNALNFLTTSQTT GCSSSCDPGHGLGQGSGNRFPI AAASARTAEEAKWFFSNKDYS NVLQLPDPKKTEYHIHEKRFSD SRILCYYPEFGKVEEILTAMKH DWFGKHRKDDKIEKTGKIKIQE SFTSEEERIRMKQEQUERIAKTR EFRE\RQARERDYAEIQDFHRTF GCDEL MYGGVSSYEGSMALN AR PQSPREGHMDA\LYAQVK KPRNSKSPVDSKGKVLGEADP VYPRRNPGTEGNASSLPSVSFSE SPPVRAAFAGYHYVAFPLWQK LMSGTSGKDPEKEADLARVVT LRVVTLRIETHVKTLAFTAALL QQLACIDVGMDKQNDVYTYN KILLSFKRKEILTHTTTRMSLED IILSEINQWQEDKYRFGLYEVA QVVKLIETESKVVVSRDGGRG
4708	35076	A	4749	10	2051	
4709	35077	A	4750	2	2118	
4710	35078	A	4751	1	658	MWNSKTLAAFRPCPKDPLNFE LERDNLAYLAEEIPKQSIQYIT WMILKAFSHMHLQRDNLKLEL MFKRKAKHKGLKNLHPDHVIE KKNLFSAEKFKPAAEIYISNEEP NVNSQDNGKKCLQGMSEIFAA APAITDNTSDKTTLIKVSSWPYI ADRRCPVLNVNTRDPSSEDPVF LRTLKGKGDWFGKALQGWGL\ KGIHHVSAQEPVCLLLPFMTPR
4711	35079	B	4752	1	471	
4712	35080	A	4753	315	407	
4713	35081	A	4754	411	1042	
4714	35082	A	4755	1	423	
4715	35083	C	4756	202	321	
4716	35084	A	4757	5	413	CFFFFFFETESHFVTQAGVQWR DLGSLQSPPGFTPFSP/QPPKE PGPQAPATTPGQSFAFLVEMGF HHVSQ\EVSIS*PRDPPASASQS AGTTGVSHRAWTFCLRQSLA LSPDWSA VARSQLTATSASWV QVSRR
4717	35085	C	4758	150	491	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4718	35086	A	4759	1	548	GIAFCLNLIKTLKLPNFKSCVIL LGLLLLYDV/FFVFITPFITKNGE SIMVELAAGPFGNNEKNDGNL VEATGQPSAPHEKLPVVIRVPK LIYFSVMSVCLMPVSILGFGDII VPGLLIAYCRRFDVQTGSSYIY YVSSTVAYAIGMILTFVVLVLM KKGQPALLYLVPCTLITASVVA
4719	35087	B	4760	642	1985	
4720	35088	A	4761	39	252	
4721	35089	A	4762	1	783	
4722	35090	C	4763	218	358	
4723	35091	B	4764	372	374	
4724	35092	B	4765	129	1036	
4725	35093	A	4766	1211	1983	SQSCLLLQEDFAPIAGEQEAEQ HQEDLRALLRASLQGQCSRQP GTRLHGSAWPGEAQNRSRPLP GDSPSLDRYRGI/SDAVGKSRSG DIGSSLRVEAGDKRTQASPERQ PHCGAHDQAQDISGREIFKPRQ LPGSAIWSIKVGHGSGFPGKRR PRGAGLSGRGGRGRSKLKSIG AVVLPGVSTADISSNKDDEENS VLDMVVLFSSSDKFTLN/QVCG SFGQGAEGRLLACSQCQCQYH PYCVSIKMDACSSSELKY
4726	35094	A	4767	1	603	MANFNDCVLDKEKVCIAAKFIT HAPAGEFNEVFSDIRLLCNND LLRERAARAFAHYNMDQFTPV KMEGCEDQTIIACIESHECQPKN FWNGRWRSEWKFTITPPTAQV VGVVKIQVHYIEDGVSQVLVSH KDVQDSLTVSNDQAQTAKEFIKII ENAENEYQTAISENCQTMSDTT FKVLRRLQPVTRTKIDWNKILS YNI
4727	35095	A	4768	1	867	MADFDDRVSDEEKVRIAANKFIT HAPPGEFNEVFNDVRLLLNND NLLREGAAHAFAYNMDQFH AVK\IEGYEDQVLITEHGD LGN SRVLDPRNKISF\KFDHLRKEAS DPQPEEADGGLKSWRESCDSA LRAVVKDHYSNGFCTVYAKTI DGQQTIIACIESHQ\FQPKNFWN GR\WRSEWKVPITPPSAQ\VVG VLKIQVHYIEDGNVQLVSHKD VQDSLTVSNEAQT\AKEFIKII NAENEYQTAICGNYQTMSDTT FKALRRQLPVTRTKIDWNKILS YKIGKEMQNA

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4728	35096	A	4769	2	690	WPSGSASRPRHLRAPEPV\GKA GKNKGAGLTPA/AGTSGCAGR AESRGPPTGSHGSEPSRGSKGL CGRGTRSLPERGAEVLPPLPAQ TSPQLGSQGAWP/RHPRKPFPRP AARAGTQPPGFVPSTPALLKVL YRSAHTQHSGRAAPEPSRLALG PTLQQRHMGHRRNLTFSSSTY NKKCGFGWAVEMRFSALLDVT TTPSRVAFWGSRGPPPLGMRQL QLLSGYSPDGWLSTSM
4729	35097	A	4770	1	590	MDTRIGTTDTGTYGKVEGARR MRLKKLPIEYYAYYLDDEICTS NPCEFPGYGIEREYPCETSGPLE LTVQEDQGEPPQREELTRKKTS KVCGRSPLAWATGVKPCLKKK RRRRKEERRKKKEEGEGEGEEEE EEEEEEEEEEEEEEEEEEEEEEEE EE/EEEEEEEEEEEEEEEEEEEE EEEEESDPCTSWNTSQP
4730	35098	A	4771	1	288	
4731	35099	A	4772	1	237	MRSSVIGPRSHIPSQRKSGIQEE EEEEEQEEEEEEEE/EEEEEE EEEEEEEEEEKGLLDQEAARHLV LPAATQCKPKM
4732	35100	A	4773	1	794	MASHSSPMGSQYYYGFPGPDS AMHALNTVVSEKDLTLDLSGL VARNKRCGPHSYSLNTHLLHA CLRLPTQRENTTLKTFIPQGW HTDQVEREAECQPGRLKICVHD TAQELPLASTARNALLGRNLCP FRQSSTTQMPDEIPISLDDMRP PSLKKKK/VVGEEEEEEEEKEK EEEEEE/DEEEEEEEEEEEEE EEEEEEEEEGGGGGVGE EEGEGE EQKKKEKKKKEQEGGGEGG
4733	35101	A	4774	115	341	
4734	35102	A	4775	1	651	
4735	35103	A	4776	189	618	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAEISGNNISIF\HHE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNFI YIIFSKMPTKVPSLWDSKLGAE QAAPEENNKKEQQEYQGKSF SFLNLTECWP
4736	35104	A	4777	1	414	

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4737	35105	A	4778	189	692	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISF\HHE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNF IYIIFSKMPTKAMSISSMFKFAT KIRMTVTPNPKCCWIPVFPAYL STSKAAKCMHHTAHHGQEKSD HCISPSPIAP
4738	35106	A	4779	2	3815	
4739	35107	A	4780	957	1493	KNRNYNKLRLPQCNPTRTQD* ETHSKPLNYMETEQSP*LLG T*RNENGRHKAFL*NQ*EKRHNI PESLGHI/AKQCVEGNL*H*MPT RESRKDLKLTP*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKTNKEEKREESNRN KKC
4740	35108	A	4781	1	4962	
4741	35109	A	4782	2421	3011	NQACQPGQAGAARAGQCFPRV AQRPGPGPAGMALAHPDLYLC HSAGDQCR*DEEADPPEGQAPT HFQVHPAGGLHLLDRLAAPQH QAGTQGGQGPGRHH*PAARSS PVEPPSTGSPSRPTTTMWPSCSR RQGGGLGPG*CVQQPHLLDAP GTLPLVGLALVCRLQPWRCLPL GGGGGVGGSQRPFGGGGGNG GRNWG
4742	35110	A	4783	1	932	MRTPKSSIKPSLGEEKENYRGS LKETAPSLQKEWAEQSSKSQET VGVGITRHFQVSTLLERREDR KSKEPPLLIPRQTVSGVDLQQT TDLQLSVLTVRRKTNKQKGHP HQKPICTSPSSNTKVKNLEKQL DEWLTRITNAEKSSKDRMELKT KARELHDECTSLSSRCDQLEER VSVTEDEMNMKRGEKFKREKR IKRNEQSLQEIWDYVKRPNLCL IGVPESDGENGTLENTLQDIIQ ENFPNLARQANIQEI/RENAT KILLEKSNSKTHNCQIHQS*NEG KNVKGSQRERSGYPQREAHQT
4743	35111	A	4784	477	638	LLCCGFELPLLARRSLIV*SLLLS THQSHSPSSFVPLLVRSCIPLEEE RRSDF
4744	35112	B	4785	1	1509	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4745	35113	A	4786	3	832	ERHHPPPQAGPHPPRRRKERNTHRQPTPQPHGA/WKISVPQTTNKGISSITSTQRNQPQATTVEKAHNESTRTPPEPKGAVRGTR*KKKKTSDRTPPQTP*EKSSSATRNKAGGKDSDKRERKATEDQTTPSKRRKLHPMAKKLKTLLKN*MNG*LE*PMQRSP*RT*WS*KPRHENYVMNAQASVTDAINWKKGPPRPTTNDKIVTRPTHPTCSHHRPPRKPPRTHPTPTPTQNKISQ*NGYTTPRGKRVREDRCKPPQAPTSAPRAAKQRQS
4746	35114	B	4787	1580	4673	
4747	35115	A	4788	1	462	MKLEHQEAQRRSGQGREGRRWPEGKAGPGCEGAWILCPESQDDSKQEGDNNMIVVSRNAVRSVKAEFQGDNLNESCSEAIIVQGRDNGVPHKAHGLGTEEEGTVLKISERQNWLDLVDLFFILLGGDLFHENKPSRKTLLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFRKLITNRKDIHTKNPSVRHHHQRPKVDETIKMGKTQSRKTRNSKNQSTSPPPKERSSSPAIEQSWMENDFDELKEEGFRSNYSELKEEVRTNGKEVKNLEKKLDKWITRITNAEKSLKDLMEKLTIAQELRDECTSLSNQCDQLEERVSVMEDQMNEMKREEKFREKRIKRNEQSLQEIWYVVKRPNLCLIGVPESDGENGTKLENTLQDIIQVNFNPLARQANIQIEIQRMPPQRYSLRRETPRHIIVRFTKVEMKEKMLRTAREKGLECSGAGLAHCKLWLLGPSDPPDCSSVSPVLRVHLVLPSLPHSVGTPFLGSVSIPPSVPRFPDRVFHPPYPYTHYCDNLKTCHTSHGSVMAETAVINHKKRKNSPRIVQSNDLTEAAYSLSRDQKRM LYLFDVQIRKSDGTLQEHDGICEIHVAKYAEIFGLTSAEASKDIRQALKSFAGKEVVFYRPEEDAGDEKGYESFPWFIKRAHSPSRGLYSVHINPYLIPFFIGLQNRFTQFRLSETKEITNPYAMRLYESLCQY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4748	35116	A	4789	1314	2221	KNRNYNKLRLPQCNPTRTQD* ETHSKPLNYMETEQSP*LLG T*RNAEGRHKAVL*NQ*EKRHNI PESLGHI/AKQCVEGNL*H*MPT RESRKDLKLT*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKT/IQRRKERRIK*TQ* KMLKEDITTDPTIEIKTHIREYYK HLYAHNLENLEEMDKFLDITYT LPRLNQEEAESLNRPTNSEIET VINSLKEKAQDQKDLQLNSTRA LFTIAKAWNQPCKPSMTDEIK/I NVEHIIHHGILCSHQKE
4749	35117	A	4790	2	2260	TKDKNHMIISIDGGKAFDKIQQ PFMLKTLNKLIGDGYLKRIRAI FDKPTANIILNGQKLEAFPLKTG TRQGCPLSPLLFNIVLEVLARVI RQEKEIKGIQFGKEEVKLSLFA DDMTVYLENPIFSAQNLLKLIS NFSNVSGYKINVQKSQAFLYTN NSQIMSELPFTIATKRITYLGIQL ARDVKDLFKENYKPLLNEIKED TNKWKNIPCSQIGRILWPYCPR QEDENFNSLLQNGDILNSSTEE KFKAHDKKDFNLPEYDLNVEE RLVLIEKSVDSTATADDTKLD HINMNLNKLITNDTFQPEIMERS KTQDIVLGTSFLSINSKEETHEL ENGKNYPNLESVNKVNGHSEE TSQSPNRTEPHDSDCSVDLGISK STEDLSPQKSGPVGSVVKSHSIT NMEIGGLKIYDILSDNGPQQPST TVKITSVDGKNIVRSKSATLL YDQPLQVFTGSSSSDLISGKA IFKFDSNHNPEEPNIIRGPTSGPQ SAPQIYGPQYNIQYSSSAVK DTLWHSKQNPQIDHASFPPLL PRSESTENQSYAKHSANMNFSN HNNVRANTAYHLHQRLGPARH GEMWAISPNDRLIPAVTRSTIQR QSSVSSTASVNLGDPGSTRRAQ IPEGDYLSYREFHSAGRTPPMM PGSQRPLSARTYSIDGPNASRPQ SARPSINEIPERTMSVSDFNYSR TSPSKRPNARVGSEHSLDPPG
4750	35118	A	4791	1516	1729	ILAPHSLACRVSASRAVSPM GFPLWVTQPFSLAALN/DFFLHF NFG/RI*QLCVLELLFSRSIVVAF SEFP

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4751	35119	A	4792	3	1426	RRYDELQNSSGRDGKPRAMAV TRSTSSTSSGSNSNVLVPVSWK RPQYSQKRAKEKLVHVLSCG QEVGLSKNPSVIFSSCGDLDLLE HQTSLVSSDGAREQENMDDT NSEQQFRVFRDFDFLDVELEDG EELQGESMDNFWGVRRRSLD SLDKCDMQILEERQLSGSTPSL NKMHHEDFDESSEEDLTASQI LEHSDLIMTLSPSEETNPMELLT TACDSTPPEPHSFNTRMSSFDAS LPDMNNLQISEGSKAEAVREE EDTTVHEDDLSSSINELPAAFEC SDSFSLDMTEGEEKGNRALDQF TLASFGEGRGVSPPPSPFFSAI LAAFQPAACDDAEEAWRSHIN QLMCDSDGSCAVYTFHVSSLF KNIQKRFCFLTCDAAASYLGDNL RGIGSKFVSSQMLTSCSLDKL KFSVLELQEYLDTYNNRKEATL SWLANCKATFAGGSRDGVITC QPGDSEEKVIKAC
4752	35120	C	4793	60	164	
4753	35121	B	4794	44	2547	
4754	35122	A	4795	401	9546	PRADITTCDRRITPGTCSRPLPV LPASLYAADMASQQDSGFFEISI KYLLKSWSNTPVGNGYIKPPV PPASGTHREKGPPTMLPINVDP DSKPGEYVLKSLFVNFTTQAER KIRIIMAEPLKPLTKSLQRGED PQFDQVISSMSSLSEYCLPSILRT LFDWYKRQNGIEDESHEYRPT SNKSKSDEQQRDYLMEERRDLAI DFIFSLVLEVLKQIPLHPVIDSLI HDVINLAFKHFKYKEGYLGPNT GNMHI
4755	35123	A	4796	2	6107	GERKPKIDLFRTCVAaiprLLPD GMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRED VLFGFTNLLREVNDMHHTLL DSSLKLLQLLTQWKLVIQTQG KVYEQANKIRNSEARDLELDV GVDVDVGVDVDADVDVDVDL GVDVDVGVDVDADVDVDVD MGVDVDVDRIYGFCKCGCDR DVDRVVDVDVDIDVDVDVDM DVNIDVDVGLGAGVDVDMDV HIDMDMDVDIGSDNILQSALRR

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4756	35124	A	4797	3	565	MLPGHLFCLAKAGKEEQEEKG QIIIRKTTITPQNIPGPGAHITATH RGRCTVATKFSGLCKEPNRLT WY/GPPLKGAHGGR/GPSSRVPS FPAAGQPPIGGALHGAGSRGLA RTRAQLGGPPGGELRGT/SGNG DGQGPDGDSRKSGSPLRPSHL/P DPAAVAGAPVSGHLQTPGHHA GRRQQAGPRGAGLP
4757	35125	A	4798	1	417	
4758	35126	A	4799	1	1069	MPRPPVPANALGARGEAVRLQ LQGEELRLQEVSRVLHQINIYL SDRISLHRRLPVRWNPLCKEKK YDYDNLPRTS\VTKAFYNEAWS TLLRTVYSVLETSPDILLEEVIL VDDYSDREHLKERLANELSGLP KVRLIRANKREG\LVRRALLGA SAARGDVLTFLDCHCEHEGW LEPLLQRIHEEESA\VCPTDVI DWNTFEYLGNSGEPQIGGFDW RLVF\RWHTVPERERIRMQSPV DVIRSPTMAGGLFAVSKKYFEY LGSYDTGMEVWGGENLEFSFRI WQCGGVLETHPCSHVGHVFPK QAPYSRNKALANSVRAAEVW MDEFKELYYHRNPRARLGLAC DECSIKAGWWL
4759	35127	A	4800	1	1152	MHNSDGIEMRQQKAEIGRVG GLEGIQLGVTEVIVNGARMLES YNCKAELGATGLVNYQISVKC SNQFKLEVYLLNAENKVVDNQ AGTQGQLKVLGTNLWWPYLM HEHPAYLYSWEGRPDGAQAVG ALTPGTLAV\EVWLTAQKSLGP/ SDFYTLPVGLRTVAVTESQFLIS GKPFYFHGVNKHEDADIQGGK FNWPLLVKDFNLLCWL GANTF CTSHYPYTEMLQICYRYGIVVI DECPAPSGHT\GPSVPSLLARW QLFNNVSMHHHMWVVEEPVL RDKNHPAMVMWSLAKEPASFL ESAGYSFKSLTMEQTARVLDLD TGEAVLQYRSLPRGAHKT LGK KRKISSYNVDLTSCQLAKEKCL KGPSSFLQSRQERMNSEL RDN
4760	35128	A	4801	293	535	
4761	35129	A	4802	94	686	
4762	35130	B	4803	1	2187	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4763	35131	A	4804	596	1789	MFHVIERPYECKEKGKFNRSYG QLTLHQRFTGDIHKGGKPYEC KECKKTFTLYRNLTRHQNIHTG EKLFECKQCGKTYTTGSKLFQH QKTHTEKPYECKEKGKAFSL YGYLKQHQKIHTGMKHFECKE CKKTFTLYRNLTRHQNIHTGKK LFECQECGKAYSTGSNLIQHRK THTGEKPYKCKECKGKTFSLHG YLNQHQKIHTGVKPYECKKIHT GGKPYECKEKGKAFSRASNLV QHERIHTGEKPYVCKQCGKTFR YGSALKAHQRIHRSIKVNQWL DSPRHSINCDPMSPRTRKTR RSHVSGRSLCQRLLGQGAQLRE FKQPPRNRFRVCGLVARNTFP RGLRGRASRRNAAASRLDA VAELLKARCSALGGSGLPEGLS
4764	35132	A	4805	2	489	CQEGAKWEQGMTGRRWVVG PPASSTPPHS/HFWLLVLSRGLV GIGEASYSTIAPTIGDLFTKNTR TLMLSVFYFAIPLGSGLYITGS SVKQAAGDWHCALRESFLQLV RLKVTLLQLQLLYPTNGK RQDTNHTRSQCAHYLPHLDFQ VALCAYAVLQC
4765	35133	A	4806	1	327	
4766	35134	A	4807	899	1219	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRSTGPLS GALGMYSTASPRLMFSGCMISS AR*LFRSSAVTMPAAWMSFTI WAVRLPL*KAWAPSMASVS
4767	35135	A	4808	2152	2633	SRLDCGQGLVNGSCDYHHGCT GDTPRRPEWHRSLAHCMSPVD SLPGCAVSGSSDPWEVSWLWQ Q/VDRCNREE/VMW*QRLGFP SPTVSFPQRAVSASKPLQ*APS WISLHSTLSQCRASDLRGRHTV PEVVYEWSPCALPTHREHPNAI MEGWPPQAWWA
4768	35136	A	4809	2	387	SNASVILEGEDLRFSCSVRMAG RLQGRFSVIWQLVDRQNRRSDI MWLDR\DGTVQPGSSYWERSSE GSVQMEQVQPNFSGLGIFNSRK EDEGQYECHVTEWVRVVDGE WQIVGERRASTPISIALGE

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4769	35137	A	4810	46	3753	EIRSWEKRRRLVLCLEAADM KCFFPVLSCLAVLGVVSAQRQV TVQEGPLYRTEGSHITIWCNVS GYQGPSEQNFQWSIYLPSSPER EVQIVSTMDSSFPYAIYTQRRV GGKIFIERVQGNSTLLHITDLQA RDAGEYECHTPSTDKQYFGSYS AKMNLVVIPDSLQTTAMPQTL HRVEQDPLELTCEVASETIQHS HLSVAWLRQKVGEKPVEVISLS RDFMLHSSSEYAQRQSLGEVRL DKLGRTTFRLTIFH
4770	35138	A	4811	1	3728	MKCFPPVLSCLAVLGVVSAQR QVTVQEGPLYRTEGSHITIWCN VSGYQGPSEQNFQWSIYLPSSP EREVQIVSTMDSSFPYAIYTQR VRGGKIFIERVQGNSTLLHITDL QARDAGEYECHTPSTDKQYFG SYSAKMNLVVIPDSLQTTAMPQ TLHRVEQDPLELTCEVASETIQ HSHLSVAWLRQKVGEKPVEVIS LSRDFMLHSSSEYAQRQSLGEV RLDKLGRTTFRLTIFHLQPSDQ GEFYCEAAEWIQDP
4771	35139	A	4812	897	1217	ANRKASTMRWYVRPFCGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCISIS AR*LFRSSAVTMPAAWMSFTI WAVRLPL*KAWAPSMASVS

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4772	35140	A	4813	1	1507	MWNSKINHDDHDDQFLKTYVVL ESSISVGVASNASVILEGDDLRF SCSVRMAGRPPQGRFSVIWQLV DRQNCRSNIMWLDLDRDGTVPQG SSYWERSSSFSGSVQMEQVQPNF SLGIFNSRKEDEGQYECHVTEW VRVVDGEWQIVGERRASTPISII ALEMGFAVTAISRTPGVTYSDS FDLQCIKPHYPAQVPVSVTWR FQPVGTVEFHDLVTFTRDGGV QWGDRESSFRTRTATEKAESSN NVRLLISRASDTEAGKYQCVAE LWWKNYNNTWTQLAERTSNL LVIRVLQPDRMGVSARALRGE SPSQMPQACCHGNTGALVIGIN EPESLPCLQTVTKLQVSKSKRT LTLVENKPIQLNCSVKQSQTSON SHFAVLWYVHKPSDANGKLIL KTTHNSAFEYGTYYVEEGLRAR LQFERHVSGLFSLTVQRAEWL LSPNYAWYKLAEVSGRTEVT VKQPGGSLGLGC/SVSGWAAEP VCTQGPRPCSWNTPLALTAAC
4773	35141	A	4814	1	627	
4774	35142	A	4815	166	435	
4775	35143	B	4816	1	240	
4776	35144	A	4817	1	288	VVPASSPGAASEPRRRRCLQP EKSVSPGSGGGHRDPPKARPPR PPSAPKP*RPRPFS*LARSLCFPA AGCAYGVGVGGAGGGRAGLR QPVPAAVE
4777	35145	A	4818	206	1041	VSVGSAPSDMPAAATRW/CNSR CQHGQRLSAR/PVAGPGT/RTSS FPWLAPRNVVPGSLEMPGTA GPQRGSHSSPQGSSALLSFS/CV HNVESKEPVCLLLPSMASRLLT PRGTCRPVPGCLQHPLSLPPVL VGTQSPSQAPKSAKRSPQPQL GWLQLHPGGSGLCCLLPAPAGS MECAALESVPSQLGIGAPGPCW AQAGVQGWNSVATSSPSGPSA QGQPRAPPCLVCGPAQCCTSGS RSRATGLRPSCLECQVWWSQP CGANPGDTTSSQDAGTRCSKV
4778	35146	A	4819	2	487	

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4779	35147	A	4820	152	758	RGARGPEWDGQLDGPQSQMC GMASAPRLRRSGVRAAAGHPV QQPRLLDGLSLTDESDSCVSFEP PSHPSSSSGPVTALSRGWNFLK AFPLMGETQERER/VLTHFSRR YCQCNP/AQPSGDIH/TLTCA LMLLNTDLHGHVIGEVGTETN RTDKQQNRTEQSKRQANADKH NEHANNEQQHEHDKDNDTRTR DTEMRHAKRDNA
4780	35148	A	4821	100	220	
4781	35149	A	4822	100	1588	CLKISTGYTGSMEEASGNLTI MAEGEGEAGTSTHGQSRKRE KEEVLHPFKQPDVLRSHYRENS KEEICPHDSVTSCQTPPPTLGITI RHEIAASICHVADTAGVAGDA MMRKTDLIPPFIGLTLQGGRSA DMGNQKKWRKGSENLATLVA MASERFWQYSGNSTIQPKQK QHGMITRLVTAPVCPGLVQPSL CAVGLRNIMSLSSHTCALQNTK QAWEGYDDCHSQRVSQGEN MTKLSFLNLLNQMPSWGEGKM VPADFGSGSCWEGTGTGSPAGSQ VSFLNRHNDGQLAGDSPGLPPP PCPRGLQGAEQRSALRRHKAD VHRDQWLVISFSKKLRTSARK WYEAGPFSGVPRVLPAAAQGG TDFPFSPSEEPFQSPFSMVQAH TVRSKPQFHFPAAAGENCLNRSE LSRNQGLQARVGPLAIMSSDPS GDFVLYTPTILGFVGLVLSR EGTFLWRYSTCP\NYKLWLPP GYLGLLVPKDQKVRAVFLGM
4782	35150	A	4823	1329	1881	AHLEAAGWSSSVQPGSPRVLG RAEEHGQQSGRAKEIGHKIPKE TFDELTALETISSK\CLYLAKK NQVIQQELLSMKEVQQCKKL EEVKNILEQEVVNLKTHEKNM VEFGDVEECKLQLEERAGQEIE KLEEINLQRACLSAAKVRAEGE LEPRRHNNHTLGFTEGPWGLM SVITGAYDLIR
4783	35151	A	4824	176	308	LGNLTSPFFN*KHRSTKGFTTLS TVALLLTGHVGIKTSNCHPGY

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4784	35152	A	4825	1467	1890	DWFDELTALETISSK\CLYLAK KNQVIQQELLSMKEVQQKCKK LEEVENKILEQEVVNLKTHEKN MVEFGDVEECKLQLEERAGQEI EKLEEINLQRACLSARKKVRAG ELEPRRHHNHTLGFTEGPWGL MSVITGAYDLIR
4785	35153	B	4826	1	753	
4786	35154	A	4827	225	410	
4787	35155	A	4828	225	410	
4788	35156	A	4829	225	411	
4789	35157	A	4830	141	1001	GGVRGVQQKETCAFKVLESIG KLG\LALSVAGGAENSALYNVD AGHRAVIFDRFRGEQDIVVGE THFLIPWVQK/PPIIFDCRSRPRN VPVITGSKDLQNVNITLRILFRP VASQLPRIFTSIGEDYDERVLPSI TTENLKSVVAPFDAGELITQRE LVSQRQ\SDDLATERAATFGLIL DDVSLTHLTFGKEFTEAVEAKQ VAQQEAQRARFVVEKAEQQKK AAIISAEGDSKAAELIANSLATA GDGLIELRKLEAAEDIAYQLSR SRNITYLPTGQSVLLQLPQ
4790	35158	A	4831	194	453	QPLPEPELRLPKAL*LTPSQIFSA *RLKTAARLPRKPWAVLPQGFT DTPPHFSQAQISSSSVTYLSIILV KTHVLCSPFHRGTGVV
4791	35159	A	4832	1	86	PCESYLEHL*WSCRLRLRLGVS SLQLLS
4792	35160	C	4833	191	263	
4793	35161	B	4834	1	741	
4794	35162	A	4835	3	96	
4795	35163	A	4836	1	301	QEQQKMNTLQGPVSFKDVAVD FTQEEWRQLDPDEKITYGDVM LENYSHLVSLAYEVATSCTSEIL KPSNLPKSFFFSH*QDMISPSQT SSLWSRERSCG
4796	35164	A	4837	3	273	VLHFISAGNTFAHQEHSPRKG PNNLSKRKLLPAV\GPRVFHGE DRHL/LFSTRKE*ARSLCYVQG GVQAPAAAFCSLLSLWGWAGC AFWC

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4797	35165	A	4838	3062	3688	RSVTRAPPRSTFPLAQAPSPRSH HIREPTPSPHLGPLRGSHRGPPS RPLPPALAALSLETLQPRLLHP HLHL\LHDQGRACVRAHPS YLWRCHALGVWVES/ARLRPS ALPPAHSPPLAAPLLSSSVQPPA PALEPPPRPPAAGAAARCLAAQ HHHPSRLGVQPPLAVGALGST WPPQAPAPPPPELSALEQDRVGA QPPPPPSQGA
4798	35166	A	4839	1	197	
4799	35167	C	4840	26	358	
4800	35168	A	4841	84	433	PASAPLGLSATVSACFQEQQKM NTLQGPVSFKDVAVDFTQEEW RQLDPDEKITYGDVMLENYSH LVSLAYEVATSCTSEILKPSNLP KSFFFSH*QDMISPSQTSSLSWS RERSCG
4801	35169	A	4842	1	372	VQWLFMQICLGGKHQQLRHQG VQEKMLPLEGS*VIEAGSPTLIG ETLSLEIINYIIGAGLESVHTHKS RQLGGWTRPGSHFQQVLIPAHT PMNLEPSQLSLEPRLVPAQQSL PSAPTPSKALSQ
4802	35170	B	4843	7	267	
4803	35171	B	4844	213	3895	
4804	35172	C	4845	141	359	

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4805	35173	A	4846	831	3017	RRRLHYSGSTRPWRTRAMLPR TSLRPHLSLSLHLLPCLLLHL\ LPTHLPPGPKHQPTVREL/ARRC RLPRACHPAQNLLEQQPLRPSH LQRH/LSLLPPLGLSQSGPPG/LA PQPLL*LQTPDHFAGADPCSIHG TSH*HQGTSNPSGRDGYQTPSH ICP\SPAPKQSFLFGTQNTSPSSP AAPAASSAPPMFKPIFTAPPKSE KEGPTPPGPSVTATAPSSSSLPT TTSTTAPTQPVFSSMGPPASVP LPAPFFKQTTTPATAPTTTAPLF TGLASATSAVAPITSASPSTDSA SKPAFGFGINSVSSSSVSTTTST ATAASQPFLFGAPQASAASFTP AMGSIFQFGKPPALPTTTTVTTF SQLHTAVPTATSSSAADFSGF GSTLATAPATSSQPTLTFSENTS TPTFNIPFGSSAKSPLPSYPGAN PQPAFGAAEGQPPGAAPALAP SFGSSFTFGNSAAPAPATAPTPA PASTIKIVPAHVPTPIQPTFGGAT HSAFGLKATASAFGAPASSQPA FGGSTAVFSFGAATSSGFGATT QTASSGSSSSVFGSTTPSPFTFG GSAAPAGSGSFGINVATPGSSA TTGAFSFGAGQSGSTATSTPFT GGLGQNALGTTGQSTPFAFNV GSTTESKPVFGGTATPTFGQNT PAPGVGTSGSSLFGASSAPAQ GFVGVAPFGNTFAHQQEHSPR KGPNNLSKRKLLPAVRAQGPPR
4806	35174	A	4847	9	935	IPCFGCAMPYQTRRQENDLR TASIAV*RRKQDDH*KQRRW QNIQRKGPKRYIVIAGNSQSHQ PMIFSMLRKLPKVTCRDVLPEIR AICIEEIGCWMQSYSTSFLTDSY LKYIGWTLHDKHREVRVKCVK ALKGLYGNRDLTARLELTGRF KDWVMVSMIMDREYSVAVEAV\ RLLILILK\NMEGVLMVDVDCES VYPIV*ASN*ALASAVGEFLYW KLFYPECEIRTMGGREQRQSPG AQRTFFQLLSFFVESKSHFVTQ GGSGQFSAHRNLCLPGSGNFH VSASRVAGIAGAPPHTWLIYVF
4807	35175	A	4848	1	1749	
4808	35176	B	4849	282	1227	

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4809	35177	A	4850	221	907	FEDSFNRGVKKKAAKRPLKTPP VAKYPPKGSQAVHRHSRKQSE PPANDIFNAAKAAKSMDQHRE VRVKCVKALKGLYGNRDLTAR LELFTGRFKDWM\VSMIMDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIVLFYPECEIRT MGGREQRQSPGAQRTFFQLLS FFVESKLHDHAAYLVDNLWDC AGTQLKDWEGLTSLLEKDQS TCHMEPGPGTFHLLG
4810	35178	B	4851	1	2361	
4811	35179	B	4852	1	878	
4812	35180	A	4853	1	313	MPHTPRCLFRPQASCLVHFLEQ QNKLETKLQFFQNRECKSNL EPLFEGY\TLRREAECMEANS RLASELNHVQEVLEGYKKKYE EEVALKATAENEFVALKK
4813	35181	A	4854	188	354	
4814	35182	A	4855	405	647	LPLISDQVSYSPLMSKSLASLY QESY*TILARIPLISPFVNSLST DLFILLIGNTSIAIFAEFGVSAISL PSCNSLE
4815	35183	A	4856	1	585	MSSGEGKRTWLGSWGGVRVP VPPPICGLRVAVTSAGTSSFSLA PKPTRIRGERGKGQGRG/SSGN GGRGRAGASAGGSRGVSVVA NDGRWRGRGRGVGCPRSSKRE DNRFAKHGRASGKAWEPPPS QALRALFGPIRRRGRAAETRIV YWIKDRQLTNRDSTILELQKVL KTCCAQSMKIFCCLWNFVYKQ
4816	35184	C	4857	12	468	
4817	35185	A	4858	1	1156	MAFRKKIITAGCIDHVLVSVD QQMQANLTQRTEAEIRKQTQIA PTFPAHSLPDKYLGALLNRKII GTFLVFNMCKRNHEDKNEAFT VLREKKVFNLEFCTLQNYSEV KEKERQRFSDKQTLREFATRK ALKEMLKVLQRYKERKHIRKR NVKYSADHTTDHTANQADPNQ QEPHVPGHAPDNKTIRQKQNG HKDNTTRKHNMQTSNDRSNT KVSQQRGKQTRRRHERQQKA RERGQHRQK/RDAQTREHTQR QRQARAEE\QVIENKREEKRTS ERTNDSTRREGTRRPRRTEKGE RQEEGDRATATHRKDHDRQQP HGAPHCSRSSRHGAPTGPLYCC SPLPGTPSCTICTVQYGRWLPH MATEQLNMAGPNQDFQDVVW

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4818	35186	A	4859	1	1580	MAPALLLLLASGAAACPLPCV CQNLSESLSTLCAHRGLLFVPP NVDRRTVELRLADNFIQALGPP DFRNM TGLVDLTLSRNAITRIG ARAFGDLESRLSLHLDGNQAG GAGHPRALRGPVNLQHLILSGN QLGRIAPGAFDDFLESLEDLDLS YNNLRQVPWAGIGAMPALHTL NLDHNLIDALPPGA\FAQLGQLS RLDLTSNRLATLAPDPLFSRGR DAEASPAPLVLSFSGNPLHCNC ELLWLRRLARPDDLETCASPPG LAGRYFWAVPEGEFSCEPLIA RHTQRLWVLEGQRATLRCRAL GDPAPTMHWVGPDDR LVGNSS RARAFPNGTLEIGVTGAGDAG GYTCIATNPAGEATARVELRVL ALPHGGNSSAEGGRPGPRTSPP PLALLPRYNSEDETLIYRIVPA SSHFLKHLVPGADYDLCLLA LSPAAGPSDLTATRLGCAHFS TLPASPLCHALQAHVLGGTLTV AVGGVLVAALLVFTVALLVRG RGAGNGRLPLKLSHVQSQTNA
4819	35187	A	4860	2	403	
4820	35188	A	4861	87	442	PVFPWHPYSKDQKEESQSVLVI WQKTAGGGWSTWWILSFSPET EKVVKK/AHVDTL*NEMWDVT K*TAFKIPSCT*HQQHP*SFFRK SESQVIVFAGQGVKIH*YILLHS NVIHYMNEI
4821	35189	A	4862	2	651	EFIKQWDADKFEHIQTLEGHHQ EIWCLAVSPSGDYVVSSSHDKS LRLWERTREPLILEEEREMERE AEYEESVAKEDQPA\VPGEIQG D\SYFT*KKTIETVK\AAERIMEA FELYREETAKMKEHKAICKAA GKEVPLPSNPILMAYGSISPSAY VLEIFKGIKSSELEESLLVLPFSY VPDILKLFNEFIQLGSDVELICR CLFFLLRIHFGQITS

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4822	35190	A	4863	1	703	MGLTKQYLRYVASAVFGVIGS QKGNIVFVTLRGEKGRYVAVP ACEHVFIWDLRKGEKGLKQEV TCLCPSPDGLHLAVGYEDGSIRI FSLLSGEGNVTFNGHKAAITTL KYDQLGGRLASGSK/RQPGGIV FTESILAYSSACQDKQNHYWGS SQ*CADFVIQLRQYCCSFSCS*F H*NMEQVYTAVYSHNDL*ICTL LILCTW**TGS HRNKAPKTMFP RCTEGLDRGNRPATHS
4823	35191	B	4864	1	2616	
4824	35192	A	4865	3	674	PECTGRTLRSASQQHDTFYILA CELNSLADDAQRVYDVPNSCL YPPDLWPVRPVMQAKKELARR DDIEDGDSMISSATSDTGS AKR KSKKNIRKQRMKILFNVVLEAR EPGSGRRLCDLFMVKPSKKDYP DYIIILEPMDLKIIIEHNIRNDKY AGEEGMIEDMKLMFRNARHYN EEGSQVYNDAHILEKLLKEKRK ELGPLPDDDDMASPKLKL SKA ASHFII
4825	35193	A	4866	3	425	
4826	35194	A	4867	1	1115	LCSVPTLCLASSHLVSNLSTFKQ VTSSFIRHV VATLLGLYLALFCF GWYALHFLVQSGISY CIMIIGV ENMHNYCFVFALGYLTV CQVT RVYIFDYGQYSADFSGPMMIIT QKITSLACEIHDGMFRKDEELT SSQRDLAVRRMP SLLEYLSY NC NFMGILAGPLCSYKDYITFIEGR SYHITQSGENGKEETQYERTEP SPNTAVVQKLLVCGLALLFHLT ICTTLPVEYNIDEHFQATASWPT KIIYLYISLLAARPKYYFAWTLG TAPRKWSPCPGPQCIQLRAADP SGPELLMLSSQERQPKAKPPK EAHADIAGTPREGEKTRTGGPG KAFLRDPGASSSVLSRTQLWV LTPPIAKAPCECLQ
4827	35195	B	4868	218	656	
4828	35196	A	4869	1	180	
4829	35197	A	4870	12	199	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS

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4830	35198	A	4871	1	5058	MKLRGVSLAAGLFLALSLWG QPAEAAACYGCSPGSKCDCSGI KGEKGERGFPGLEGHPGLPGFP GPEGPPGPRGQKGDDGIPPPG PKGIRGPPGLPGFPGTPGLPGMP GHDGAPGPQGIPGCNGTKGER GFPSPGFPGQLQGPPPPGIPGM KGEPGSIIMSSLPGPKGNPGYPG PPGIQGLPGTGPPIGPPGPPG LMGPPGPPGLPGPKGNMGLNF QGPKGEKGEQGLQGPPGPPGQI SEQKRPIDVEF
4831	35199	A	4872	3	1646	EDEGRAKGHHTWQQTRENESQ AKGETPYKTIRFRETYHHKNSM GETTPMIQLSPTGSLPQHVIGIM GATIQDKIWVTPGLPGFPGTPG LPVKRGFPSPGFPGQLQGPPVIP GPTGIPGPIGPPGPPGLMVTGP PGLPGPKVNMGLNFQGPKGEK VKQGLQGPPGPPGQISEQKRPID VEFQKGDQVIPGDRGPPGPPGI RGPPVTPGGEKGEKGEQGEPPG KRVKPGKDGENGQPGIPVMPG DPGYPGEPGRDG/EKGNAVMG PPGPPGFPGERGQKGDEGPPGIS IPGPPGLDGQPGAPGLPGPPGPA GPHIPPSNKGDTFCNCIGTGISG PPGQPLPGLPGPPGIPGAPGA PGFPGSKGEPGDILTFPGMKGD KGELGSPGAPGLPGLPGTPGQD GLPGLPGPKGEPVRITFKGERGP PGNPGLPGLPGNIGPMGPPGFG PPGPVGEKGIQGVAGNPGQPGI PGNKGDPGQTITQPGKPLPGN PGRDGDVGLPGIPGLPGQPLP GIPGSKGEPGIPGIGLPGPPGPK
4832	35200	A	4873	110	256	CSGTYRCYSF/HSRDPYLWSAPS DPLE/LVVTGPARQYYTKGNLV RIASGL
4833	35201	A	4874	2	2888	LSDPCSSRWDERSLSQRSRSWS YNGYSDLSTARHSGHHKKRR KEKKVKHKKKGKKQKHCRRH KQTKRRILIPSDIESSKSSRR MKSSCDRERSRSSSLSSHSSK RDWSKSDKDVQSSLTHSSRDSY RSKSHSQSYSRGSSRSRTASKSS SHSRSRKSRSSSKSGHRKRAS KSPRKTAQLSENKPVKTEPLR ATMAQNENVVQPVVAENIPV IPLSDSPPSRWKPGQKPKWPS YERIQEMKAKTTHL

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4834	35202	A	4875	350	986	LWGGGSARLLRLPRGPCLPPAS PSSPSSSELS*SCSLGPSSSSSSS SSSCSLCPSSSSSSSP*LPPSSSS SSSRPLPPSSSSSSSSSSSSSSS SECLCSPSSRPRTTVAGLGAPG FSPGPVDTCSVWLLRFTSTMIW DCSLRL*VPEPPSSSNSSPPSSL HKLGGPPASSTPPSFSSLKKG WAGPMVAGTVPPAVPAPSSTR TE
4835	35203	A	4876	1	496	SQSYS\RGSSRSRTASKSSSHSRS RSKSRSSSKSAVLASTARCAGS RKQCVPLPRLCQLQSRSLQPS MVPWRWGLTGPRGIALPPAAR PGPLHEAPRWGPPRRRAPRPWP PGARPGRRRRRRAAASPSSCG PRASGAAGGGRGAPIGARASA GAAVWTPISTT
4836	35204	A	4877	3	4578	TLAVFVPTLAGFSVALGGPAW GRRRRSVSGVGVWLQWQCFLF CSRGAQAGGQPALAATSVAM GAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCKNFLCLCSG EKGLGKTTGKKLCYKGSTFHR VVKNFMIQGGDFSENGKKGGE SIYGGYFKDENFILKHDRAFLS MANRGKHTNGSQFFITTKPAPH LDGVHVVFGLVISGFEVIEQIEN LKTDAASRPYADVRVIDCGVL ATKSIKDVFEKKRKKPT
4837	35205	A	4878	1	1689	

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4838	35206	A	4879	1	1604	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA NAISNARHFHNLTHVNASGLK HRYSTWKEAKNIIQRCPTCQM VHSSSFRGGVNPRGLEPNSLWQ MDVTHIPLFGRLAYVHKRRRIR GGGGGEGEGEGEGEGEEEEEEE EEEEEEEEEEEEEEEEQEQQEE QEQQEEQEQQEEQEERRRKDTE ELSYSLPLNRTQPCWHPDFGLP
4839	35207	A	4880	1	1146	
4840	35208	A	4881	1	1577	MGQVWALVHSTLETFTHTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNK AVQVQTGVTDSDYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK F\EGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFWKVLPPQGNQQPIWI PSRYLKPYHKPDAKEEIPEGSQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTSINWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKISGGNCGPHPHRLQPCPD

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4841	35209	A	4882	1	420	MTNISTTLKDLKDAGMIDPIKS TFNL/PIWIPQKPDGSKTTANN /R/KLNQATISIAAIVLDVASLPG KARSYHGFSSHAGRVIDSNNQK DIEGCTYILNVAGKNMFGIQLR RSVIFPCPNLMYTDNCSSHGPR GPSDYDSDP
4842	35210	A	4883	213	687	PEHILPGAQEGPSC/PLEPELE/V *NMSSWNTLSESCMHGDLKY LFVITAKDQQ/VSIAAST/*GFC WNQ*VSASPSQAPGMPLVLGR RLWQGSRLGGLSISLSDCHGA HNHSFKRVTTTLQVFSWTPVQ AEPAMDCIHTA/DSRQRLP*QA HESVAEVIIT
4843	35211	A	4884	1	648	MSSWNPLPESFKKHGYLLYLFV ITAKDQQ/VSITASTWGFYWNH SQGKNPEQMEASQKPVAGLWA WWLNISLSAASHGAQNHPFKR VTTTLQSQGWKDLWIMRELL CNNRPEQLLQETATIKAPIAPAD PWSQEVYINFCKAVSSVSCMPF NIHFNSNIPPESGDRMQQPC KVEQSILGAQRGGGCRPGSLR ELFPCLLAEPNMEEEVAALRA
4844	35212	A	4885	3	597	GTLEPAAEWSVLLGVHSQDGP LDGAHTRAVAAIVVPANYSQV ELGADLALLRLASPASLGPV WPVCLPRASHRFVHGTACWAT GWGDVQEADPLPLPWVLQVE LRLLEATCQCLYSQPGFNL LQILPGMLCAGYPEGRRDTCQP SPEPGMCIS/VSHIQLRLDAVS HTWQRGTEPARLGSWERRQRQ QQQGPV
4845	35213	B	4886	387	552	
4846	35214	A	4887	20	612	
4847	35215	A	4888	792	959	TGLSSSQNPKATKSIPWHNRLL PNVDSQVQQNSQAIITYN*GNS ESQYPFSKMDT
4848	35216	A	4889	268	500	
4849	35217	A	4890	1	529	
4850	35218	B	4891	259	1672	
4851	35219	A	4892	480	657	
4852	35220	A	4893	2	377	WCDFSSSLHRSVQALRTFCVTL SGAFVRDCTTVLSSTTCEPSTD V/CWAMNIVTSVLLLYGSEEEA FWLLVALCERMLPDYYNTRV VVIRTYDQRYEQCVLDYDGLP TTLFTTDDWHVWPDLTGLP

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4853	35221	A	4894	1	251	TEARKAAAVMPKTAVLAAERP KKA WGVLPKKSTKRTPKAFA GGGCW/TKVGWSKVAKKVPKP EASKPKKAAPKTRRYKSTLTKT
4854	35222	A	4895	283	427	PSVSKESPLNSPASQAGSATFAT TPLTPPK/PAATSSVAAAALLPA LPR
4855	35223	A	4896	111	1095	SRGWSRLPVPCCAPALLSPWAV NGIRRRGAGDGTRRGSGCAG AHSAGLVASGPESWIPGPVPPG AEPPIRGDSGLARCPAPGHPSR ASQORPAEGFDALAAPSRVPGD SRQLSRNNTRSRCEGRGGKTPP AWAGVHRHGPAPAAPPGRARV HGHRLRGGLGPGGGKRGLPGC CPRAADPRGRP/GETSRSGERG PGRSAPLSLQPRHRTGLET/RQP SPLARSRPGLGPRPSARRPSRPA PPPPPELHRGAPQGRVASQT RPGARARPAADTHSSLKSPASQ AGSAAFATAPLTPQKPQLRAP WQPLHSFRPCRGVTSRLRTAPP
4856	35224	B	4897	243	452	
4857	35225	A	4898	3	353	RRYLSPKYIKMFVLDEADEMLS RGFKDQIYDIFQKLNSNTQVVL LSATMPSDVLEVTKKFMRDPIR ILVKKEELTLEGIRQFYINVERE EWKLDTLCD\LSAMHGDMQDK ERDVIMR
4858	35226	A	4899	3	410	NLQEWKLDTLCDLYETLTITQA VIFINTRRKVDWLTEKMHARDF TVSAMVCLPAASLLWVCPSEV SYLKPGFLEPRCLPGLLHICFLF QHGDMDQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQKG GSKVI
4859	35227	A	4900	1	235	MLSYVLEVTKKFMRDPIWILVK KEELILESIIHQFCINVEQEKWKL DTRLRLYETLTITQA\VIFTNTR RKCCSKVREI
4860	35228	A	4901	3	48	NSNVEREEWKLDTLCDLYETL TITQAVIFINTRRKVDWLTEKM HARDFTVSAMHGDMQDKERD VIMREFRSGSSRVLITDILLVSR GN**QRGTRGVEAGHTM

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4861	35229	A	4902	2	879	AQFPTRLDLKATQALVLAPTRE LAQHIQKVVMALGDYMGASC HACIGGTNVRAEVQKLQMEAP HIIVGTPGRVFDMLNRRYLSPK YIKMFVLDEADEMLSRGFKDQI YDIFQKLNSNTQVVLLSATMPS DVLEVTKKFMRDPIRILVKKEE LTLEGIRQFYINVEREEWKLDL LCDLYETLTITQAVIFINTRRKV DWLTEKM HARDFTVSAMHGD MDQKERVIMREFRSGSSRVLI TTDLLARGIDVQQVSLVINYDL PTNR\ENYIHRIGRGGRFGRKGV AINMVTEEDK
4862	35230	A	4903	1	1764	MASLEEGIYSLKINSKRSSYNS MNPQFTAGSEGNETEENPKFQ SRKGRPQDSGSSLSVLQELG DDIPKVKEEAVISSQSDLGECY CGERPARNATIFAPQKEKESAP EMSSSCDKRVTNPNPEKFSEGR PKTQNTLICEKCSQPSNFLDDY NPHVIIQKRLSNQSRVICEKSSP PLNVDPNYNHSHVIQKHKEKM AIERPSSGSDWSDVGTTVIFSE EKPFSLCLPVVSEPPYYATDYT TFPPHYSPWHDYTSSWFSSTKS SCYPSLGSSSNTLQAGKSSCSSS SRSNNNIFQGERSSHQSFLSDYS TSFPVSSENTSRLDKMTEEGRS KNSSLFYYSRNVEAEAKEERVY QEETLGHPYGGGRASSFPRTIW QPEQPGFIDTHCHLDLLYSRLPF KGTFTKFRKIYSNTFPKEFQGC SCFCNPQNLSNLDNLWEDQLKDD LVWGVFGCRPHFAHYNNYQE RSILKALRHPKAVAFGEMGLD YSSKCTTHIPEQQKVFKRLRL AVSLK\KPMMIHCREADEDLLG ILKKYVPSDHKMYQHCFSGSY VIKPLLSCFPNLYVGFMALTY SAEQARETVKK

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4863	35231	A	4904	125	820	VLAPNYHITFRNLSSVSSPVTSA EPVLQAGQARELSFSSLHPASPL LVPSTPALTLHAFNALVLFPSFP LEKAAKRERPKSKIQITARVGK MRRTWSPHTTISAGGSVNGAST LKNSLVWEAKPADTTNPTPTT HPNPGTPPTNTNRHPPPHPLT NTPAPPHQPPATTP/SPQTQTPN YCPNTDHTTPTHDTNPVPPTR RTPPNRTGKRTNTSQNYRLVSP APKIHWEA
4864	35232	A	4905	407	757	
4865	35233	A	4906	5	426	GKTSTKSQNASSPPKDHNSSPA REQN/WIENEFNELTEVGFRIT SLEKNINDLMELKNTARELREA YTSINSQINQVEERISEIEDQLNE IKHEDKIREKRMKRNNQSLQEI WDYVKRPNLRLIGVPESDIENG TKLENTL
4866	35234	A	4907	1	2267	MTGQFQDVVREEARPLPNRIM RLRFNHFATECSWDHLYVYDG DSIYAPLVAAFRCEVENRYQGN PLRGTCYYTLLIDYQFTFSLSQE DDRYYTAINFVATPDEETPIRG RQTAHTGELQLTSGGYPSGMK LPEEGTGERNRITINKKDVHTET PSKGHQHQRPKVDKSTKIKKN QRKKAENSKNKNASSSPEDHN SSPAREQNWMENEFDELTEVG FRRWVITNSSKLKKHVLTOCKE AKNLEKRLGQLLTRITSLEKNV KELMELKNKAQELCEAYTSINS QIDQAEESISEIEDQLNEIKHED KIREKRIKRNKQSLQEIWDYVK RPNLRLIGVPESDGENGTKLEN TLQDIVQDNFSLARQANIQIE ILKTPQRYFSRRATPRNIITFTK VEIKGKMLRAVREKDHSIAKLE LRIKKLTQNCTTMWKLNNLLL NEYWVHNEIKAEINKFFETNEK KDTTYQDLWDTAKAVFKGKFI ALNAHRRKWERSRIDTLTSQK ELEKQEQTNSKASKRQEITKIR AELKEIETQKTLQKINESRSWFF EKINKIDRLLARPIKKKREKNQI DTIKNDKGDITTEPTMQTTIRE YYKHL YANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTTSSE IEAIINSLPTKKSPGPDGFTAKL YQRYKEEVVPLLLKLFQTVGK EGPLPNSFYWANIILIPKGRHT

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4867	35235	C	4908	605	760	
4868	35236	A	4909	94	400	
4869	35237	A	4910	1	1538	MPIQM QYPQYKLVENKTQPPVI YQYWPPADLQYRPPPEVKYRP QVVCVPVNSTAPYQQPTAVVF NPTAPPSGQGIIAQNTDLVEWF FLPHSTIKTFTLYLDQMATLIGQ ARLRIKLCESDSDKIIVPLNKEQ VRQAFINSGAWQIGLADFVGII DNHYPKTKIFQLKLTTWILPKI TRHKPLENALTVFTDGSSNGKA AYTRPKERLIETQYHWAQRAE LVAVITVL\QDFNQSNIVSDSA YVVQATKDVETALIKYSIDDL NQLFNMLQQTVRKRNFPHYVT HIRAHTNLPEPLTKANEQVDLL VSAFLEAQELHALTHVNATGL KNKFDITWKQAKNIVQHYTQC QIPHLPTQEAGVNPREQHFTGK KNSPHEGKLIWWKDKKNKTW EIGKVITWERGFAVCSQGENQL PGWIPTRNLKFYNEPLGDAKKS ASAETKNPQLSIIDSPGKAPGCL MPTTQNWLVVEVPTVSATSKFT YHMOVYPAPKRQRPARTGIHND DGSFVKKGDM
4870	35238	A	4911	1	759	FRMVIRCLPQRELDGDRGNWT ATSAELTGKWRRYNFGGHGD CGPIISVPAQDDPILLSFIRCLQA NLLCVWRRDV*PDC*ELWIFW WGDEPNLVGV\YIMNCRLWKK DSGKMAFPMNVGRC/FFKAIHN LLERCLMDKNFVRIGKWFVRP YEKDEKPVNKSEHLSCAFTFFL \HGESNVCTSVEIAQHQPILIN EEHIHMAQSSPAPFQVLVSPYG LNGTLTGQAYKMSDPATRKLE EWQYFYPMVLKKKKK
4871	35239	A	4912	1	539	MRHPCDGNLSYFDHISVNMLA VMLYYGFRVSGIKTGLRGVQ RHLWPLPLDASSTKTVSSSHSD KGEIFSPFPCSLINCNNFEMRNT TKCLMDKNFVRIGKWFVRPYE KDEKPVNKRVTSEIWLDFDEY\ GVSLPCFAVERCALLPLCLLPR LMISISSTRQPQYISRRGLKAKI SWVV
4872	35240	A	4913	198	620	

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4873	35241	A	4914	63	1267	RNRILRMEFFDWFWAFWSWLL NMIRSQNAKDSSSNSMENTDSP WCELFRELCKINALDVPDSSLV RGNEFSASVHNTFDHMMWRKE RYEAGWLLSSADRVMKENDE LRDSVSWLQKQILSLKSAKIAL SGSLISYRERAEIVEKQTQTLIM RVADLQQKGYINSPALCHNLIW RDLDFHSFPYDITLFHYIDDIML IGSSEQEVANTLDILKGQRFVLT VIDTYSRYWFASPECNASE/KT TIHGFTECIIHYHGIPHSIASYQG THFMAEPEGWASKNQGVEVTPF TITPSDPVATFLLPVPMTLRSAG LEVLVPEGGTLPFGDTTMIPLN WMLRLPPGHFGLLLPLSQQAK KGVTVLAVVIDPDYQDEISLLF HNGAHSIDGNGVILIGLLQWFFT
4874	35242	A	4915	2	2210	
4875	35243	A	4916	1	2036	MDTFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLLQLF QSIEKEGILPNSFYEASILIPKPG RETTKKENFRPISLMNIDAKIVN KILAKRIQQHIKKLIHHDQVGFI PGMQGWLNTCKSINVQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLKKLGTDTGTYFKIVRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPFLFNIVLEVLAIR QKEIKGIQLGKEEVILSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKTNVQKSQAFLYTNNI QTGSQIMSDLPFTIASKRIKYL IQLTRDMKDLFKNYKPLLEMT/ KTKKWKNIPCS/WELEKTTLKFI /WNRKRARIAKSILSQKNKAGG ITLPDFKLYYKATVTKTAWYW DQNRDIDQWNRTEPSEITPHIY NYLIFDKPEKNQWGKESLFN KWCWENWLAICRKLKLDPLT PYTKINSRWIKDLNLRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATQAKIDKWELIKLSFCT AKETIIRVNRQPTKWEKIFTTYS SDKGLISRIYNELKQIYKKKKQP HOKDFAYHFTVFVYFGAFLLE AAATSLHDLHCNTTITG/HATPE **PV*HKRSSLTITYLCRSG*IIW WCDPHTHS
4876	35244	A	4917	1	1359	

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4877	35245	B	4918	1	948	
4878	35246	A	4919	1	981	
4879	35247	A	4920	1	3747	
4880	35248	A	4921	1	1875	
4881	35249	A	4922	1	2238	
4882	35250	A	4923	1	3924	
4883	35251	A	4924	1	1068	
4884	35252	B	4925	62	389	
4885	35253	B	4926	1	3663	
4886	35254	A	4927	1	1474	MAVSTTVRVDMPCCAVMLYC WGRSGKEQQPDEALKGKGFTV CFEGLRFGQKPGSYFSLDQIGH VEIQMITPPWRGTTLSTKRGR KRGKTESDREHNLAPPKGRDTP KKEGAHVRRGGPLSGTPTEKK GKARSPRYGDTHRGEGLNKTH RAPQNFSESPEPTINKIDRPLAR LIKKKREKNQIDTIKNDKGDIT NPTEIQTIREYYKHL YANKLE NLEETDKFLDITYTL PRLNQEEV ESLNR PITGSEIEAIINSLPATKKS\ PGTDGFTAKFYQRYKEELVPFL LKL FQSIEKEGILPNSFYEASILI PKPGRDTQKKENFRPISLMNID AKIVSKILANRIQVHIKKLIHHD QVGFIPGMQGCVGSSARAIGQE KEIKGIQLGKEEAKLSLFADDTI ECLNPIVSAQNLFKLISNFSKV SGYKIHVPKSVSFLYTNNIQAES QIKNAIPFTIASKRIKYLGIQLTL EVKELYNKNYKTLLKEIRDE
4887	35255	A	4928	419	1002	CYQRWKVLKKSSGPLARL/IKK REKNQIDAIKNDKGDITDPT EIQTTIREYYKHL YINKLENLEET DKFLDITYTL PRLNQEEVESLNR PITGSEIEAIINSLQTKKSPGPDG FTAKLYQRYKEELVIYRFNAIPI KLPM TFFTELEKTTLKFIWNQK RIRIAKSILSQKNKAGGITLPDF KLYYKATVTKTAWYW

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4888	35256	A	4929	1	2502	MFFETNENKDTTYQNLWDTFK AVCRGKFIALNTHKRKQERSKI DTLTSQLEPEKQEQTTHSKASR RQEITKIRAELEKEIETQKTLQKIL QKINESRSWFEEINKIDRLLAR LIKKKREKNQIDAIKNDKGDITT DRTEIQTITREYYKHL YANKLE NLEEMDKFLDTYNLPRLNQEE VESL\HRLITGSEIEAIINSLPTKK SPGPDGFTAKFYQRYKEELVPF LLKLFQSIEKEGILPNSFYEANII LIPKPGTDTTKKENFRPISLMNI DVKILNKILANRIQQQIKKLIHH DQVGFIPGMQGWFNHKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKSLNKLVLVLAR AIRQEKEMKGIQLGKEEVKLSL FADDMIVYLENPIISAQDLLKLI SNFSKVSGYEINVQKSQASLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAILIKLPM TFFTELEK\TTLKFIRNQKRACIA KSILSKKE\KAGGIMLPFEKL*Y KATVTKTVWYWCQNR YIDQW NRTEPSEIIPHIYNHLIFDKPDKN KKWGKDSL FNKCWEHWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLAGHLGNTIRDI GLGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETAIRVNR
4889	35257	A	4930	1	4187	MGDFNTPLSTLDRSMRQKVNK DSQELNSALHQADLTDICRTLH PKSTEYTTFAAPHHTYSKIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVY RGKFIAFKAVCRGKFIALNAQN RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEKEIE TQKTLQK\SESRSWFEEKTNKI DRPLARLIKKKR

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4890	35258	A	4931	1	1818	MSSRGPCTLETLINPSPSVADDI PHLRPKPVYITTTTRDNENIYSTK IPYMAARVVFIKWIVTFFLEKK YLTATQNTKNGVDVLPKIIQTV GGGAVQERAPELDGGGPTEQD KSHSNSSTLSDRRLSNSSLCSE EEHRMVYEMVQRIILLSTRGYV NFVNEVFHQAFLLPSCEIAVTR KVVQVYRKWILQDKPVFMEEP DRKDVAQEDA EKLGFSETDSK EASSESSGHRSSSWGTH\NSFT SAMSRCVTEEG/TIQMLKAGV QALLQPVLCVFPLIPLPLCNQA ARPAVVSIPLGDLLPWSVLGG PADQWHL SYLKPEGSSAYACIL EALESAGKGLWKVSAVGRKP WTRGRSDRKGTVGHQVQFLFF KDEGRVDSRILTLMVAWIRPN\ LCVYISRELWDDFLGVLS\SLTE WEELINEWANIMDSLTAVLAR TVYGVEMTNLPLDKLSEQKEK KQRGKGCVLDPQKGTTVGRSF SLSWRSHPDVTEPMRFRSATT GAPGVEKARNIVRQKATAKRS QSI S NCVHLSEALPATKSVPLLL HTLYKNKALKAAALGQPVGKAD QLVVAGSPSVCCVEDQWGRSN LEAMVLWLYCIPPDGDVLYL
4891	35259	C	4932	96	278	
4892	35260	A	4933	1	261	KLRLPPGHFGLLLLLSQQAKKG VTVLAGVIDPDYHNEISLLHN GGKKKTRPAEMLAEGKGNT WVGEEVSHQYQL*PHDQLQKR
4893	35261	C	4934	36	385	
4894	35262	A	4935	1	2349	
4895	35263	A	4936	207	561	QLAEPHWIPGTRKDAQCLVGL FGFWRQH I PHLGGLLWPIYRVT QKAASFEWGP E *E KALQIQPS VQAALPLGP*DLADPMVLEVS MADRCAGWSLWQAPIGELQQ KPLGFWSKALP

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4896	35264	A	4937	1	1375	MSTTQLDTMGAESLCNMETVQ VEDEGIQKLKEIRMVEWITPFRP THPSCEGPEDIPLTNALQNTFVR AAPASLKSPVVALLSPVGYRT HAVVISPVPECRFGIDILSSWQN PHIGSLAGRAHQKQFVGSWQG QQYAFTVLPQGHINSLALCHNL IWRDLDFLLSQGITLVHYTDD IMLIGSNLADPMVLEVSMADRC AGWSLWQAPIGELQKPLGFW SKALPSSADNYSPPERQFFACY WALVETECLPTGHQLTMQPEL PIMNWVLSDPSSHKWVHGQSG HGGRDSGYSWTQQHGLPLTKG DLSMTTAEQCIFQQRPILSPRY GTIPWGDQPATWRQKWQRFVL TGIDTYSRYEFAYPACHASTKT TIHGLMEFLIHHHGIPHSIASDQ GTHLMAKEVRQWAHAHGIHW SYHVPHHPEVAGLIERWNE\GL LKSQLQHQLVNRLRRELQCWL
4897	35265	A	4938	1	324	INCLRNCKTYQA/RKPLWFYNT SLKFFLNKP/MLADVVEIQGTT VPAHRAILV/ARCEVMAAMFN AGIFQAMCLLCAE/MYQVSRL QHICELFII/TQLQSMPSRELASM NL

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4898	35266	A	4939	108	2304	VAAAYPPPASPWPSPARSLAGA APAPLCVGPAAVEAREGDAAG DERIAGELAARGPREAVSRCFS PSRRPALGFEIMSIHIVALGNEG DTFHQDNRPGLIRTYLGRSPL VSGDESSLLLNAASTVARPVFT EYQASAFGNVKLVVHDCPVW DIFDSDWYTSRNLIGGADIIVIK YNVNDKFSFHEVKDNYIPVIKR ALNSVPVIAAVGTRQNEELPCT CPLCTSDRGSCVSTTEGIQLAKE LGATYLELHSLDDFYIGKYFGG VLEYFMIQALNQKTSEKMKKR KMSNSFHGIRPPQLEQPEKMPV LKAESHYNSDLNLLFCCQC VDVVFYNPDLKKVVEAHKIVL CAVSHVFMLLFNVKSPTDIQDS SIIRTTQDLFAINRDTAFPGASH ESSGNPLRVIVKDALFCSCLSL ILRFIYSGAFQWEELEEDIRKKL KDSGDVSNVIEKVCKILKTPGKI NCLRNCKTYQARKPLWFYNTS LKFFLNKPM LADVVFIEIQGYG QCPAHRAIL\WAPCEVMAAMF NGNLHGKAKSVLIPVYGVSKET FLSFLEYLYTDSCCPA\GIFQAM CLLICAEMYQVSRLQHICELFII TQLQSMPSRGTGHPWNLDIS/V DLL*KGPSFHHSWIAFSTWAYF HFHCYLYLIFQFKRPGIFRDLF S/EGRNGSFLFGKRHRWGPSNM LLGRQLAGITGKYYFTSPGNVG
4899	35267	B	4940	1	3117	
4900	35268	A	4941	1	1162	MRVCARACVTRTRMCMVYAH TCVVCVPTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIAAYQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VITL\MTGLWLAVLADTGATV LVTANALRLRRR

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4901	35269	A	4942	1889	3387	QWAIKQFKHAEKENPYLFGGG HLRAIFR*SGFQ*RQLHTMHWG AS/QQAEHP/LAQPSTRAQLRTP P/TADS/QRALVGSGMKPRLNG ERVLICAAGKHPADAFTGLINE LESAGQTVVLVVRNDDVLGVI ALQDTLRADAATAISELNALGV KGVILTGDNPRAAAAIAGELGL EFKAGLLPEDKVKAVTELNQH APLAMVGDGINDAPAMKAAAI GAMGSGTDVALETADAALH NHLRGLVQMIELARATHANIRQ NITIALGLKGIFLVTLLGMTGL WLAVLADTGATVLFPPRLFEAR NSQVGNGETNQTRFRLCAAPG GTFIADFTAGTGRRARPRRNR RVVVSFDFHQNMRRLMEIVA ARFVVSKVAAHFRTFHYGGVIF ISRENVIRWGFESIFDHLEQFR LLFTIDNPVGVKNFVAAVLGVR LGKHIQFDVVRVTTKLCEILQI VNFIFRQSQAKTQVSVDQRLTA LPQQINAGNRSRLMVGKQLLCI
4902	35270	B	4943	1	2104	
4903	35271	C	4944	1	1215	
4904	35272	A	4945	3	268	YEFNRPYPEIQRSGIS\KLEPLL FAATSDSQLSKTEISSIKINSETV PVYQLRYNGNNALMFATYQD KMLVFSSTDMLFKDDQQDTEA
4905	35273	B	4946	1	1725	
4906	35274	A	4947	1	1437	
4907	35275	A	4948	2	736	QCPYPYIAATGRILVVTHLICLA PQIVENQVTYPLTTTMLSVPGA KTVRGFSQFGDSYVYVIFEDGT DPYWARSRVLEYLNQVQGMLP AGVSAELGPDATGVGWIYEYA LVDRSGKHDLADLRSLQDWIL KYELETIPCVSEVASVGGVVKE YQVVIDPQRLAQYGISLAEVKS ALDASNQEAGGS\NELAEAEY MGGTCSAHGRALSRGVLWCRF SAIVRGPPRGMFCGAGAAPNLI
4908	35276	A	4949	531	632	
4909	35277	A	4950	532	609	

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4910	35278	A	4951	1	525	LGVEATA\IGDFGK\AAEKLVPV VELAQACAHAVMKSGIDLAVS YCMQVNHGFAQPLEFLLGGLD KVPVLLVFINGVATPLPGFQRT RMLGEAIGRFTSTPQYAGDTVN DEDISNTIRALFATGNFEDVRVL RDGELRKFPCTCESDDNFRPVT SVNYVIRHDWVGIRRVVPENE
4911	35279	A	4952	1	2769	
4912	35280	A	4953	1	681	
4913	35281	A	4954	1	1230	
4914	35282	A	4955	1	774	MLRTSDRPPYQYPKRCIPLSVL EVLRCARRWSLRPYQLARAYI /ERYRHDR\DIEREKRGRLNQEI RGLVEQTNASLLNENANKDSK AHERGDIHYHDLDYSPFFPMFN CMLIDLKGMTQGFKMGNAEI EPPKSISTATAVTAQIGSVHIYG GTTINRIDEVLAPFVTASYNKH RKTAEEWNIPDAAGYANSRTIK ECYDAFQSLEYEVNTLHTANV EGLTGDDGIAVEALKKNSQKPR MSASHNCELVSLRGRQYT
4915	35283	A	4956	1	1278	
4916	35284	A	4957	461	1002	SLSTKGYAAAKWCSTACAGS/T LLLIVLLWVFIPKGFPPGQDNGI IQGTLQAPQSISFANMAQLQRQ VADVILQDPAVQSLTSFVGVDG TNPSLNSARLQINLKPLDERDD RVQKVIARLHTAVDKVPGVDL FLQPTQDLTIDTQGSRTQYQFT LHATSLDALNTWVPQLMEKI\Q QLPKLS
4917	35285	A	4958	1	291	MNPVDRPLLDIGLTRLEFLRISG KGLA\GLTIAPALLSLLGCKQED IDSGTVGLINTPKGVLVTQRAR CTGCHRCEISCTNFNDGSVGTF FSRIKPH
4918	35286	A	4959	1	306	MKNFEVLQPLQNSLSGLPLWV SERILQQINQLTHYEPVIGIMGK TGAGKSSLCNALFAGEVSPVSD VAGCTRDPLRFRLQIGEHFMTI VDL\PGVGESGVRD
4919	35287	A	4960	2666	2775	
4920	35288	A	4961	9	308	GDLDGSRHRAFLCHLPVELKTA LMFPVTLTRALMETAY/ATAVS A/NFRTERGAH/SRFDFFD/RDD ENWL/CHSLYLPESMSMTRRSV NMNPKLRPAFPPKIRT
4921	35289	A	4962	1	1132	

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4922	35290	A	4963	1170	1352	RNLPDAAGQSCAGEIRLYRQQT QRSRLQRWLHLACFRRCNLHR RELDATA*QHVRSCRWR
4923	35291	A	4964	1	312	MRKLTALFVASTLALGAANLA HAADTTTAAPADAKPMMHHK GKFGPHQDMMFKDLNLTDQ KQQIREIMKG\QRDQMKRPPL ERRAMHDIIASDTFDKVKAEA
4924	35292	A	4965	3	205	KDHIKGVLEAQNSLSTQVSLFF *SFFG*NSNMRNLIQIYRSL/CTK AI*LMNFKRHK NQLVINYL SRS
4925	35293	A	4966	1	915	MTGVATARARGLRRLSVGQV PPFARLWKG VQTVERHMLANI GTGSQHPGCGFQLINQNSVIVF AAGEVNGFTSGDVQCLKMRSG DMNDIQRRQRLPDGNKFGEIQ TTIREYYKHL YANKLEDLEEM DKFLD TYTL PRLNQEEVESLNR PITGSEIEAVVNSLPTKKSPGPE RLTAEFYQRYKEELVPFLKLF QTTEKEG LLPNSFYEASVLLIPK PGKDTTKKENFRPISLMNIDVKI LNKILANRIQQHIKKLIHHNQV GFIIGVQGWFNICKSTNVIYHV NRTNDKNH\ISIDTEKAFD
4926	35294	A	4967	1	1338	

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4927	35295	A	4968	1	1928	PPLVIHRQTGSGEDLQQTPTDL QLRVLTIRRKTNKQKGHPHQNP ISSRRHEITKIRAEKQETETQKTL QKKS MNPRSWFFAERINKIDRLL ARLIKKKREKNQID\AIKNDK\W DITHRIPTEIETIIREY\YKHLTY NKL\EN\LEEMDKFLDTYTLPAR LN\QEEVESLAHRLITGSEIEAITN SLT\TKKSPGPDGF\TAEFYQRY KEELVPFLLKLFQSIEKEGILPNS F\YEASIIISKPRDRTTKKENFR PISLMNIDAKILNKILANQIQQHI KKLIHHHQVGFIPGMQGWFNIL KSINVIHHINRTKDKNHMIIIEA EKAQDKIQQPFMLKTLNKLIGD GTYLTYLKIIRAVYEKPTANIIL NGQKLEAFPLKTGTRQGCPSP LLFNVL\EVLVGAIQKEKEIG IQLGKEDVKLSLFADDMIVYLE NPIVSAQNLLKLISNFSEVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKT LNQKFSYWFRVNKHVYHQRTFP LKETEFNTIATLYNGASP/RTAP KSTGTNGHQASGLPRF*RIAFCS ALVSKRKLYQGYLPQQTDRR EEGVSWCPGGP
4928	35296	A	4969	2	237	QPVEDTWLSTPAAPMVDSLAR VRVMARGNAITLPVCGRDVK/F TLEVLRGDSVEKTSRVW\SGIET YQELVTEDALDDL
4929	35297	A	4970	1	1752	
4930	35298	A	4971	1	723	
4931	35299	A	4972	1	1701	
4932	35300	A	4973	1	1446	
4933	35301	A	4974	1	403	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKG\LALKGLRVLLVEV RHRV
4934	35302	A	4975	1	1374	

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4935	35303	A	4976	1	2259	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLAL/KGLRVLLVEVHKRWS*N DEGYRHCTV***\HPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRLVIQ LNKLICVMCLVRDCDVLKTYF HR*SGLLPKVAFTKP/HVSVHL AQDLALKGLRVLLVEEPPSAPN LGIGTINVCAADVLIPTPAEL FDYTSALQFFDMLRDLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV VRETDEVGKAAPMVDSLIARV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDGI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKGYESFPWFIKRAHSPSRG LYSVHINPYLIPFFIGLQNRFTQF RLSETKEITNPYAMRLYESLCQ YHPLTIEKVMKPLITSNTVTDEI ERANVFKMNGKWYLF TDSRGS KMTIDGINSNDIYMLGYVSNLS TGPYKPLNKTGLVLQMGLDPN
4936	35304	B	4977	1	1744	
4937	35305	A	4978	1	2367	
4938	35306	A	4979	1	1215	
4939	35307	A	4980	1	946	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGQAPCMK\LTMR SSSSAPSPWML
4940	35308	A	4981	1	1572	

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4941	35309	A	4982	1	1617	
4942	35310	A	4983	1	550	
4943	35311	A	4984	1	3818	
4944	35312	A	4985	607	3777	
4945	35313	A	4986	671	3091	ARCQRVPGRVPDLLRCLPRAT TPAPSPAPGLVVRRLAAPVPAA APVPAAAPVPAAAPVPAAAPVP AAAPVPAAAPVPVAAAPVPVAA PVPAAAPVPAAAPVPAAAPVPA AAPVPAAAPVPVAAAPVPAAAP VPRFQSPNQASTSDSPHIGQLP HQTVPISDSFHTGQSPHRTDSTP DSPHTGQLPHRTVPTPD/ELPHR TVPTPDSFHTRQSPHQTASTPDS PHIGQLPHQTVPISDSFHTRQSP HQTASTQDSPHTGQIPHRTVPT PDSFHTRQSPYRTASTPDSPHIG QLAHRTPVPTPDSFHTGQSPHRT DSTPDSPHTRQLPHQTVPISDSF HTGQSPYRTASTPDSPHTRQLP HQTASTPDSPHTRQSPHRTVPT PDSSPHQTVSTPDSPHTRQLPH QTVPTPDSFHTRQSPHQTVPPT DSPHTRQLPHQTASTPDSPTPD SPHTGQSPHQFPHQTVPPTADSP HTRQLPHQTVPPTADSPTPDSFH TRHSPHQTASTPDSPHIGQLPHR TVPTPDSFHTRQSPHQTASTPDT PHTRQLPQQTVPTADSPTPDSF HTRQSPHQTVPPTPDSPHTRQSP HRTVPPTPDSFHTRQYPQRTVPT QTASTPGSPHTKQSPHQTVPPT DCPHTGQSPYQTVSTPDSPHTR HSPHQTASTPDSPHIGQLPHQT ASTLDSPHIGRHPRQMAPTPESP HARQLPCQMAPTPDSPTLDGPH
4946	35314	B	4987	1	891	
4947	35315	A	4988	157	1990	
4948	35316	B	4989	1	2157	
4949	35317	A	4990	1	378	MSIKGTYLKVIKAIYDKPTASSI LNGENLKAFLLRGTGRQGCPLY KINVYKSVALLYTTNDQGENQI NNSTPYTTAPRKIKYIGIYLTKE VKDLYKENYKTLLKEVIDDT/R WKHIPCSWMGRINIV
4950	35318	A	4991	1	392	

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4951	35319	A	4992	3	1570	ETDFAFVGQAGVQWCDLSSPQ PLPPWVQAILLPQPPRQGCWSG IPKWSGISEDVQVWKNCKLDL AAATGKNCLGQGEEALLTQMR TGNQREVSDWWEFVYLRSRN PLMVNSNYMMDFLYVTPTPL QAARAGNAVHALLLYRHRLNR QEIPPVRGPQWVRDGGVVLWP LGHVGPGRQLTAHGFLQTLLM GMRPLCSAQYEKIFNTTRIPGV QKDYIRHLHDSQHVAVFHRGR FFRMGTHSRNSLLSPRALEQQF QRILDDPSPACPHEEHLAALTA APRGTWAQVRTSLKTQAAEAL EAVEGAFFVSLDAEPA\GLTL EDPAASLDAYAHALLAGRGHD RWF\DK\SFTLIVFSNGKLGLSV EHSWADCPISGHMWEFTLATE CFQLGYSTDGHCKGHPDPTLPQ PQRLQWALPDHIHSSISLALRG AKILSENV DCHVVPFSLFGKSFI RRCHLSLDSFIQIALQLAHRDR GQFCLTYESAMTRLFLEGR TET VRSC TREACNFVRAMEDK KKT
4952	35320	A	4993	1	1027	MPAKSPGQDVLGTDNIKIDVFK QTNQKSHTGEKPYECPEGKAF SEKSRLRKHQRTHTGEKPYKC DGCDKAFSAKSGLRHQRTHTG EKPFECECGKSFNYKSILIVHQ RTHTGEKPFECNECGKSFHMS GLRNHRRHTHTGERPYKCDECG KAFKLKSGLRKHRTHTGEKP YKCNQCGKAFGQKS\QLRGHH RIHSGEKP\YKCNHCGEAFSQKS NLRVHRTHTGEKPYQCEECG KTFRQKSNLRG\HQRTHSGEKP YECNECGKAFSEKSVLRKHQR THT\GEKP\YNCNQCGEAFSQKS NLRVHQRTHTGEKPYKCDKCG RTFSQKSSLREHQKAHPGD
4953	35321	A	4994	154	331	IPAAATCMGSLG*ETPGLWA RRSVKSRGLFPGLPSPRASVRS LLLLPAWAAFLEGIVDTRPTAW RAFPWTLFLSVFCQFLDFPETS LSQKLSLDTPSF

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4954	35322	A	4995	657	1455	PEPKPAAVAPPESPLPAGDSEG CLQPGHLL\PASPRLP RP RQAAS LAHRPEKSAPGADCP SGRR\GR PWTCGGLSGPAAAPRPCPLAPA FAPAFALGAQR\GPGPEQGGH ERQAERPGRRSRRTRAYSARIY LPVAAEWPMGPGPEPGAGGRR RGEVPGPGAQRSPARRRRGGPA AVSSGGRGVGGLRGAVLFQHP EQQQRPVGLAGLGAQQPAHV WRYGPLST/PPALGPPAAARGP\ GRRLFLPFSFSPSAGAPGAASRP SPRRSP
4955	35323	A	4996	1	415	
4956	35324	B	4997	8	211	
4957	35325	A	4998	1	563	MDPNHEEIPDLPEKEFRRVKSK NHMTISIDAEKAFDNIQHRFMI KTLSKIGIQGTHFNIIKAIYDKP TASIILNGENLKAFPLRTGTSIVL EVLARAIRREKEIKIGIQGKEEV KLLLFADDMIVYLENPKDSYRK LLEQIKEFSKVSRYKINVQKSIA LLYANS DQAENQINNPTSFTIA AKNKK
4958	35326	A	4999	667	960	
4959	35327	A	5000	317	1157	EFRMDPAIALVLALS LTVPKLT VPDSPLRLYRSFCTSACTSNLV VHFA*KEK WPDV*LYTDSWAV ANGLAGWSGTWKKHWDKIDD NEIWGRGMWIDLSEWSKTVKIF VSHESAHHIT*KSSAEEDFNNQ VDRMIHSVDTT RPLSPATPVITQ WAHEQSGHGDRDGGYAWAQQ HGLPLTKADLAMVTAEC PICQQ QRPTLSP*YGTIPRGDQPATWW QVDYIGPLSSWKGQRFVLTGID/ TSGYEFAYPARSSANSTIRGLM ECLIH HHGIPHSIASNQLYS
4960	35328	A	5001	2	15246	

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4961	35329	A	5002	1	951	MALALNRYL/CLAVLPLITKCA PLFAG/TEHRAIMVDSMLHTVY R/LSRGRSLTKAQRDVIED/CLM SLC\RLLRRLVFDVPILNEFA/K MPLKLLTNHYERCWKY/YCLPT GWANFGVTSEEE/LHLTRKLFW GIFDSLH/KKY/DPELYRMAM PCLCAIAG/ALPPDYVDASYSSK AE/KKATVDAEGNFDPRPVET/L NV/IPEKLD SFINKFAEYT/HEK WAFDK/DKEIYRWPIKESLKAM I/AWEWTIEKARELDLPREGYN PQPPDLSAV/TLSRELQAMAEQ LAENYHN/TWGRKKKQLEAK GGGTHPLLVP/YDTLTAKEKAR DREKAQSY
4962	35330	A	5003	273	478	
4963	35331	A	5004	2	622	GAPRSLSEKERQLMGMINQLSS FREQLLHAHYEQKLAASQIEK QRQHMKLGKQ\QQEQIARQQQ RLIQQQH KINLLQQQIQQLYAA QLAAMQVSPGGKLP GIPQGNL GAAVSPTSHTDKSTNSPPKSK TCCLLLWEDEHSASIEVTNQQI HLHLASSITDHGGKVIWERCLE ESGKGV TGFPDWS PRWGRIPE GSKEGFTKE
4964	35332	A	5005	3	512	
4965	35333	A	5006	1	642	MHAQTYAHTDTRAQPCTSM EK QVSLKPTEEAHKKERKPQKPG KYICQYCSRPC/AKPSVLQKHIR SHTGYG\CEMYPHGLEMERIPG EEFEPTEGESTDSEETSATSG HPAELSPRPKQPLLSSGLYSSGS HSSSHERCSLSQSSTAQSLEDPP PFVEPSSEHPLSHKPEDTHTIKQ KLALRLSERKKHQVIDRLGSGI LAGLSWQLLPQGEAL
4966	35334	A	5007	341	1020	TLNRRQG CCLGSWLTRSN GILL FEISRPTYLPILLILFLVKR/HKL KMSVLNMVVRHDPGSTESAKA KEELIFRCRSRHFRA SPLFSQHA AADKHKFQRFLTADMALAVTV YAPTTFPSSLLL FKKQKSNGMH NLIATGHLLLVDPNRMVIKRVV LSDPPFKICTKMAVVCYMFNR EDVQWFKPVELRTKWSRRGHI QEPSGTHGRMKCSFDRK LKSQ NTELMNLYK

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4967	35335	A	5008	1	847	EKAQALEDLAGFKDPAPGHTE ESMTHDKTTKIPCKSPPELVDT ATSSKKWPRACGQKVEVKEEL LAVGKLTQTSGETTHTNKEPEG EGKGMKAFKQPAKQKLDPENV TGSRRLLPRVPKEKAQPLEDLAS FQELSQTTPGHTEELANGADSFT SAPKQAPDSGKPLKISRRVLQA PKVEPVGDLVGTR/D/PVKSQSK SNTSLPPLPFRGCGKDGSVTG TKRPHCMPAPEEIIIEELPASKKQ R/VVAPRVRGKSPEPLVIMKRSL RTSAKRIEPAEDLNSNNMKTNN
4968	35336	A	5009	9	1094	IRHEESMTDDKTTIIPCKSSPEL EDTATSSKRRPRTRAQKVEVKE ELLAVGKLTQTSGESTHTDKEP VGEGK\GTKAFKQPAKRKLDA EDVIGSRRQPRAPKEKAQPLED LASFQELSQTTPGHTEELANGAA DSFTSAPKQTPDSGKPLKISRRV LRAPKVEPVGDVVSTRDPVKS QSKSNTSLPPLPFRGGGKDG VTGT\KRLRCMPAPEEIIIEELPT SKKQRV\APRARGKSSEPVVIM K\RL\RTSAKRIEAEELNSND MKTNKEEHKLQDSVPENKGISL RSRRQNKTEAEQQITEVFVLA RIEINRNEKKPMKTSPEMDIQNP DDGARKPIPRDKVTENKRCRLS ARQNESSQP
4969	35337	A	5010	1	459	MAKPWRALCILLRSLDSFLQLS ASLTCFGFMHNTYKNRPWGV RSSTERSPRKGTAGDMRAGGRF NAPLIGQDLLFKEHFASKALDT CTNIARSAKTQGGPVAAIILL AFGPCIFNLRVKFVSSRIKAIKL QM/RLTIYRGPLDRPAGPSTGL
4970	35338	B	5011	1	687	
4971	35339	C	5012	194	418	
4972	35340	A	5013	17	396	
4973	35341	A	5014	1	70	

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4974	35342	A	5015	1	994	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRD\ICQ IAYARIEGIMIVCAAYAPELPK\ YGVK\VGLTNYAAA\YCTGLLA GPAGFFHFRFGMDKFYEG\QVEV TGDEYNVESIDGQPGCLHPAY WDARPLPRTSPLAIKVFWLP*R GA\VDGGLVLFPPQYPNRFPL WIPESQGNLNARRYHREGTIHG PRIVAGLHAPTLMEDEDA\YK KQFVRQYVKNS\VTPD\MMEE MYKKAHAAR\ENPVYEKKPK KEV\KRKRWNRPKMSLAQKK DRVAQKKASPLRAQERAAEKL NQTIFYKDFSDIAN
4975	35343	C	5016	27	308	
4976	35344	C	5017	68	307	
4977	35345	A	5018	388	1485	
4978	35346	A	5019	3	1940	RDRMILLKMEQEIIDFIADNNN HYKKFPQMSSYQRMLVHRVA AYFGLDHNVDQTGKSVIINKTS STRIPEQRFCHELKDEKGEESQ KRFILKRDNSSIDKEDNQSVCS QESLFVENSRLLEDNICNETYK KRQLFRGNRDGSGRTSGSRQSS SENEKWSDHQRAWSTDSDS SNRNLKPAMTKTASFGGITVLT RGDSTSSTRSTGKLSKAGSESSS SAGSSGSLSRTHPPLQSTPLVAG \VAAGSPGCVPYEPENGIGGQVA PSSTSYILLPLEAATGIPPGSILL NPHTGQPFVNPDPGTPAIYNPPTS QQPLRSAMVGQSQQQPPQQQP SPQPQQQVQPPQPMAGPLVT QSIPAKKELNAFRVRNQEQRDT GTLHEGSGKISRMVLGWEPLSP YAPDRDDVATQFGQMTLSRQS SGETPEPPSGPVYPSSLMPQPAQ QPSYVIASGTGQLPTGGFSGSGP PISQQVLQPPSPQGFVQQPPPA QMPVYYYPSGQYPTSTTQQYR PMAVQYNAQRSQQMPQAAQ QAVLEVLSPLVSTVMPPKLAVL VMAGFRLRLELSVLLQALW WSDHLSSFSELLCRLPDVLPES LLPLEYDHQKDAQGQDYLTCLM VLVTLLESPTGIQEDDSNEISVI

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4979	35347	A	5020	3	1353	GDAYALVLRVTLYCGKCHNE VVLAPIFEILSTESIQQDL.PYSV MLMSMLAITEGRRSFSVSVENA CSNYVTTVQVKEVNQMHISPN SCNAIHPRDHILEISGTPHTLQ VEELEDASQMSQTLILLIEHDP VSRSPAQLRLDAWLSPTQNA GHPHALSTLDTKDNLEGLRRC SLRLSNSISKSPSPSPKEPLLS RDISCWESLCCSSTYSKQNFRC DLIHGEVLGKGFFGQAIKVTHK ATGKVLVMKELMRCDEENQK TFLTEVKVTLPSNLLPPGHDL QTGAREQTGILKTGGLSVPGGA GHPAACRAGGVGPHCEHAVRP DPRLTPLALAQPAGGCSTASIA PLFSIPAVSRVFRASRGLAACLE AEQAGRTILTCEVCKLVVGLSL DSQQQLSSVLCGWLCLSCPQL WSLNRHPQHQHHLVEMQNLKS HPRPGETESAL
4980	35348	A	5021	1	588	MEYPDGGSTLDLLEPGPLDETQ IITILREILKGLDYHSEKKIHRG VKAANVLLSEHCEVKLVDFGM AGQLADTQTKRNTFVGTPFWI APENNPTLEENYSKPLKEFVE ACLNKELSFRPTAKELLKHKFIL RDTKKTSYLTIDRYKRWRA KQSQEDSSSEDSNSETDGGQDS\G GSDSGDWIFTIQEKDPKNL
4981	35349	A	5022	1	1380	GPRASPPRADRRGPAVPSQEVA VLSAMAHSPVQSGPLGMQNLK ADPEELFTKLEKIGKGSFGEVF KGIDNRTQKVVAIKIIDLEEAED EIEDIQQEITVLSQCDSPYVTKY YGSYLKDTKLWIIMEYLGGS ALDLEPGPLDETQIATILREILK GLDYHSEKKIHRDIKAANVLL SEHGEVKLADFGVAGQLTDTQI KRNTFVGTPFWMV\PEVIKQAG YDSKADIWSLGITAIELARGEPP HSELHPMKVLFIPKNNPTLE GNYSKPLKEFVEACLNKEPSFIP TAKELLKHKFILRNAK\KTSYLT ELIDRYKRWKAEQSHDDSSSE\ DSDAE\TDGQASGGSDSGDWIF TIREKDPKNLENGALQPSDLDR NKMKDIPKRPFSQLSTIISPLF AELKEKSQ\ACGGELGGPLKEL RGAIYLAEEACPGISDTMVAQL VQRLQRYSLSGGGTSSH

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4982	35350	A	5023	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQGAL
4983	35351	A	5024	67	599	SAAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLKA KPKKGKPHCSRNPVLVRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLRNLLQNQVG GDKN\GGTR/VGLNFRKMPRIY PTE\DV\RKLLSHGQKNPFSQH V/REKLRSITPGTIL\MLTGRHR GKR VVFLN
4984	35352	A	5025	101	202	PVPGTSSCTDRYHYKKH**KIN TKLVSKYILNM
4985	35353	A	5026	2	562	LRTVPDLPGRRFRAMRTGQRR* PELPPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVV SVCTATGAWNWLIDPETQKVS FFTSLWNHPFFTISCITLIGLFFA GIHKRVVAPSIIAARCRTVLA EYNMSCDDTGKLILKPRPHVQ*QS SLIVMGLRIAFLRISDTAKSHKG FLLRLDM

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4986	35354	A	5027	1	2090	MGAVFFMLFSWWITSGHIQLLC TRRRATVSTHQEFVVTVPFSL GLVVSGCLDADTAMPGSAEEQ FQWQSQDGQKDIEDELTTGLEL VDSCIRSLQESGILDPQDYSTGE RVIHFGKTLGLSSEDYSIMEKG QMVKEVTVTPQVSVLKANETM ASALCGQEGHDDPLLLTVQMS TGNHYIKDNSLFPWVKWPSLLS QSALQLNSKPEGSFQYPASYHS NQTALGETTPSQLPARGTQAR ATGQSFSQGTTSRAGHLAGEP APPPPPPPREPFAPSLGSAFHLPD APPAAAAAALYYSSSTLPAPPR GGSPLAAPQGGSPTKLQRGSSA PEGATYAAPRGSSPKQSPSRLA KSYSTSSPINIVSSAGLSPIRVT SPPTVQSTISSSPIHQLSSTIGTY ATLSPTKRLVHASEQYSKHSQE LYATATLQRPGLAAGSRASYS SQHGHLGPELRALQSPEHHIDPI YEDRVYQKPPMRSLSQSQGDP LPPAHTGTYRTSTAPSSPGVDS VPLQRTGSQHGPQAAAAATFQ RASYAAGPASNYADPYRQLQY CPSVESPYSKSGPALPEGTAR SPSIDSIQKDPSKYPILCDGGNPF CALVYRPSSRERASSL/LKSMCY Q*NRLYPKFRRVLGSGFEGMQ RRFCASKGIKGRFCGSSLEQDC EHGGQHPCYPKLVPTLWNP HQ REGNQKN SERV
4987	35355	A	5028	123	3825	
4988	35356	A	5029	1	593	MQVCSSGGRILRVSGTERQLRR EGGRFCLGRGVRNLREGGALR APFTAPSLTALPPDIVDIKPAN MEDLTEVTTASESHPHHCNLFV YSSSKGFLRLCDMRAAALCDK HSKHPCDDIGPIQIIQHGLRTSR GWMILPALQSTFRCRMDEQNL RAFLAPRLCDFSTSQPQPGSPEQ PVMSGLISPWTKPSRSSVFSM
4989	35357	A	5030	1	894	

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4990	35358	A	5031	1	3115	RQICSMASELGARDDGGCTELA KPLYLQYLERALRLDHFLRQTS AIFNRNISSDDSEDGLDDSNPLL PQSGDPLIQVKEEPPNSLLGETS GAGSSGMLNTYSLNGVLQSES KCDKGNLYNFSKLKKSRLKWLK SILLSDESSEADSQSEDDDEEEL NLSREELHNMLRLHKYKLLHQ NKYSKDKELQQYQYYSAGLLS TYDPFYEQQRHLLGPKKKKFK EEKKLKAKLKKVKKRRRDEE LSSEESPRRHHHQTKV
4991	35359	A	5032	1	1522	MVAQASGQTIREAEVGGSLTA QEVEATSILLSDESSEADSQSED DDEEELNLSREELHNMLRLHK YKLLHQNKYSKDKWMSQLA ALNYLAGGDEQKLLDLSYSP QNRQPAMAKAHNNNNNNNN NNNNHNKNPKRLLDERELTY STATQSFDTRNTRSFDEDAKES RAAALRAANKSGTGFGEYSYL ANPSIRAGEDIPQTIFNGKLKG YQLKGMNWLANLYEQRRLERL RFLQLEQEHTCPQEGRAERLRG QPLKLWALLHFIMPTLFDSHEE FNEWFSKDIESHAENKSAIDET KLKKVKKRRRDEELSSEESPR RHHHQTKVFAKFSDAPPPGT KKKHLSEQLNARRRKVWLSIV KKELPKKTLYTQDAPFHVVITS NQLVVQDVKYFQRVKWQYMV LDEAQALKSSSLTRSNARYPL VSSQRKIHDQQVTTDKSSKMDP KEEYIPAKHEMENTKLQFYLS AIGEKQVRWKILLQFQCRNRL LLTGTPIQNTMAE
4992	35360	A	5033	1	974	MGFHHVARAGLELLTSGMCCY FAQDLRPEQSIKASLQRIILRKY EKCGHHNLQLKKGYSVDEYK VHKGSYNGFNQCLTTTQSKIFQ CDKYVKDFHKFSNSNRHMTK NPFKCECGKSFCVLSHLTQHK RIHTTVNSYKLEECGKAFNVSS TLSQHMRIHTGQKHQYQCGEM GIAFNKSSHLNTHKIIHTGEKSY KREECGKAFNISSHLTTHKIIHT GENAYKCECGKAFNQSSLT RHKIIHAGEKPYICEHCGRFAN QSSNLTKHKRIHTGDKPYKCEE CGKAFNVSSLTQHKRIQQQQQ QTIKQTKNLLNNNNKKLWV

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4993	35361	B	5034	22	684	
4994	35362	A	5035	1	1338	
4995	35363	A	5036	1	596	MGMTDMGSKKKKSQPPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETAVINHHKRRKNSPRIVQSD LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
4996	35364	A	5037	787	1692	
4997	35365	A	5038	289	1338	
4998	35366	A	5039	982	1347	
4999	35367	A	5040	1	780	
5000	35368	B	5041	148	334	
5001	35369	A	5042	2	545	
5002	35370	A	5043	1	732	
5003	35371	A	5044	1	1110	
5004	35372	A	5045	1	1170	
5005	35373	A	5046	1	870	
5006	35374	A	5047	1	1254	
5007	35375	A	5048	614	1236	TARVAAARRRCQCWGSGACGS ALTLPRTSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSVPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5008	35376	B	5049	1	1281	
5009	35377	A	5050	2	893	
5010	35378	A	5051	1	1416	
5011	35379	B	5052	49	768	
5012	35380	A	5053	1	792	
5013	35381	C	5054	1	1461	
5014	35382	A	5055	887	1203	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS

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5015	35383	A	5056	740	1431	CCQTLPVFHPHPHSHLGPRPCPP TH/HLPSEHRSLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSPVPTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5016	35384	A	5057	1040	1477	
5017	35385	A	5058	1	1422	
5018	35386	B	5059	1	1404	
5019	35387	A	5060	353	870	AWSSPRSRCPLHSRTPSLPRVEG QAHIGPGL/HRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVPTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS
5020	35388	B	5061	1	1612	
5021	35389	A	5062	2	429	WGHWASPRLWWAWGSPGPAG LKPPGTVAASTGFSQWLLYIETI SRTPVELELKNSKVRKDVLS/R GPHSLYLQDAQLEHAMEIAK VSVQALQAYRAPPRMEQANP KTPPDANLYKKGPSPPRRANT TRLGSRA TKTIHPDS
5022	35390	A	5063	508	1007	PPLAQKQAVASQSHSPCGGFHR RWFRMRLTGEIMKIITCFKLVP EEQDIVVTPEYTLNFDNADAKI SQFDLNAIEA\ASQLATDDDEIA ALTVGG\SLQNSKVRKDVLSR GPHSLYLQDAQLEHALPLDT AKALAAAIEKIGFDLLIWTSSRI QAVASPLSNT

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5023	35391	A	5064	1	1670	MNIEFFDPPRIVSGLTLNRINIQH PFHLTGIRYCIDERQRTVNDVL QAHAGRVLQQYLPAPATATFR CQSRNRTENPOFLVCQWAGED QITQLLQEQWRVLIVMIFRTHN HMAGPRRWFRMRLTGEIMKIIT CFKLVPEEQDIVVTPEYTLNFD NADAKISQFDLNAIEAASQLAT DDDEIAA\LTVGGSLLQNSKVR KDVLSRGPHSLYLVQDAQLEH ALPLDTAKALAAALEKIGFDLL IFVKGTCVLVAVFGLVTTHFQ PCLFGVQNGEQETVQILLGVV GGMERAERIIIPFTLAINNQPTT RLTKTIAQGMPIIQRNIPNPRIS LQPAPTPRHSANPATMQPHAQ ATPTPKPHTRTYPTRPPHPQRSA TPGTQRTPTPGQTARDRAPKP DHTRPQTAHTAHTSNDPQQR HRTRQRHTNKQHPHPAPRLPT LPQNNKRQKPAESDTRKHHTP HMRQPTAHAETTARNTQAAQH CHTQNTQPANRHATGDRPEHH QARDRTRIDPKPNPDRTITGHT KGTTYAHKHTPLATHMTRPT TGHRHGTHH
5024	35392	A	5065	548	924	GLLRPRFSVNSPIHNTWLLSAN SINWR*YGFMPSSLILL*LNPM GRYSGASLVSRMASTTLPGHS IAMRQPVCGIFALTRAIISI/AM WDFHVEDFMPERMALNLVLNS AI*LPKIFPARWMKFS
5025	35393	A	5066	33	424	CRFDESFWCDAIHAIFVAPTLY AYDFYADKTLVPLTDALANTW QKQFPLDYGKGRLWGSVAFVI GSALTGKLVTFDYRVILALLT LGVASMLLGLIRPTIQPGASL QQUESTGWSAWLALVRQNWRF LA
5026	35394	B	5067	1	265	
5027	35395	A	5068	142	609	CLFRQVSAPHITRVCITRSAATI QTIDLNNLDTGD*LQPAFPPVW LISPGPFHPTPSVTRVPLEKEIRT FAQRLSVLHGINAPEFFDKPLFS SLVLTLRDEGYISDSGDAEPAE TMKVYQLQTNIVIIHKCFKAGF TLAVGNQFLINKQRASHQN

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5028	35396	A	5069	983	1387	LVWKVIPWRPAWKITLCVLNS CRRACLFAPAT*TANRLQAVC/ WLQSANPSINRGTTLEKESRTVA QRLSVLHGINAPEFFDKAVFSSL VLTLRDEGYISDSGDAEPAETM KVYQLLAELITSDVRLTIESATQ GEG
5029	35397	A	5070	1	1815	
5030	35398	C	5071	1	354	
5031	35399	A	5072	1	678	MTDKQQGEKQKQKTEDKTKT KQKQRKNKTDKRRKTKTERNT QRTPERQNTNTNQTRTKQ/RRPD TGVTTQADTRQDTSARRILMRQP RSAAAWMAALRGARDPKLITM VPHSKISRSIVRKGLPMTETQRR TETSKNYRPREQQTRNRQQQD PRQQRTVQTHQQEERRETKDN NTHTKPHETLARRHRRHNIHAL AAADLVIEAASEVWKSCKRSL HSWRKFAPTNAIDH
5032	35400	A	5073	93	729	SADPRNRDTRAAKFTRDAGK TDC*NL*THIETPDGDRYSRAG SCGPG/PLKRRNLNVWKSCKRSL HSWRKFARHKRY*PLTLRQSLY TAIAAEIKNPERVAGLHFFNPAP VMKLVEVVSGLATAAEVVEQL CELTLWGKQPVRCSTPGFIV NRVARPYSEAWRALEEQVAA PEVIDAALRDGAGFPMGPLELT GPDWAGPPFCCHLFGV
5033	35401	A	5074	145	1038	SILRLRQKRKQLTAYDFADNCD KALY*RNHRLIREILALVCAHD RQKK/YLPSLAGFL*LKNEINRL SVRGW/SRRRSFSVR*/PFTNTD RARSHFYQFVIIDELQSLFQSHA DRRNQNNGFVSTGSTHVGQFL TGQAVYSQVVRAAMNTDNLTF VNFCTVTEEQLTAILQTEQRER DRFTLTVRDQYAVLTLTHFTRT YVVVVAEGGVQQTSTGSHGHE LRTEANQTTAWDHVVETAAAF TVWIVHFQVALTFAQRLHYRT LMLFFNVQSHVFIRLLFTTVDF EDNFRGTGYRQFETFTTH

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5034	35402	A	5075	39	4329	YAPATFSAATQPTPKKINNPVP RNSAMHWQTRIQAQANGYWL EREQWLAVGEQWFRMEWSG PHRAAAGRLCHHHGNDATWH RG*FHLCFRPCV**RIEQPQEGY AIIMETTPPGTG VNFIVSDPAF DKGYAFDFFCLEPMSHAPDDH HRPEGGLIALAPGESTTSEMS LRVPVANCAVTTASLDSYYGE AMAIGERAPVALLDFAASARL AVGEALTNIAATQIGDIKRIKLS ANWMAAAGHPGEDAGLYEA
5035	35403	A	5076	1	625	MRASGTDEAVVLVPPIRMTLEQ ALEFIDDELVEGAAAAFEALE MMGSGRDREIRYGE GSP\WFDI \VPCGGGITLTLHKLRLSAQPLL \AVLNRLEQKKPVGLRYDPQAQ SLVCLPTQTRTGWNLNGFEASI THRALRTSRYDGQYYCQGPR LTIRRTVIMTGSSDPHDTTDSNN DRVLGPSRYDGQYYCQGPRTL TIRRTVIMTGS
5036	35404	A	5077	3	516	ATLSCEVVLENLAASPVVTTLE YTLFDGER\VVHSSAIDHLAIEK LTSASLAFTVEQPQWESAESPY LYHLVMTLKDANGNVLEVVPQ RVGFRDIKVRDGLFWINNRVY MLHGVNRHDNDHRKRRGVGM DRVEKDLQMLKQHNINSVRNA HYRKRRNKEVRTKKKIESIEEK
5037	35405	A	5078	3	678	ASYCTRNDLELVAVCDSRLS QRQALAEKYGNASVWDDPQA MLLAVKPDVVSVCSPNRFHYE HTLMALEAGCHV\QAREM/CD TARKLGKVLAYDFHHRFALDT QQLREQVTNGVLGEIYVTAR ALRRCGVPGWGVFTNKELQGG GPLIDIGIHMLDAA\MYVLGFPR /SVEDSLCGTIELHSGCILWLET S FALNIREHAIMNIRFCGDKAGA SVFPAHIYTATQR
5038	35406	A	5079	2	294	YSFMV\PIFGGRRWTVFSTAILI/ PCVWLGI VQNPNT/PFGIFIVIA LLCGFAGAN/FASSMGNISFFFP KAKQGA\PVFAF/LGVNGVPQA DGSVMSLAMP
5039	35407	A	5080	1	834	
5040	35408	A	5081	2	135	QYASALVSTAIALLL\CLAFLY PAAN\SEIHL\GVLSIFWGDPDG

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5041	35409	A	5082	1	324	MQGGYNIHPLIDALDDAKLAPI AAKALSHTLLMFDNFYDVEEK AKRGNEYA\QVMQSWAD/AEW FLNRPALAEKLTVTVFVKVTGET NTDDLSPAPDAWSRPDIPLHAL GC
5042	35410	A	5083	1	866	MGLAQAKLLIEAPVNGGRNYN GPKVAKFLVGGASLNDVYLHQ HDKYRYDRYHLIRNREKTHIM PEWVTQNMNGRGVNRLLDDVN RPKSPEIKNDIRLFRQELRDAAY HFQGDADNDQLSVTPLVGLGK SSLLIK\TIFHRMRWAEQNLSICS SSFNRPAIFVRNIIQLLREGKKV EITVGDKHENDFYIPEDEPKIIG ALPYLYEINLRRFLSRLQYYVN TDQLVVRVW\KEDDN\TYHLAK GWWGDDKWMVITG\NKLDPR AWRLDLENAILIHDPQLELAPQ REKELE
5043	35411	A	5084	1	3483	VMFFFLPGLLMASWATRTPAIR DILSVSIAEMGGVLFGLSIGSMS GIL/SLGVVSETLWDT*C/HSWS RCPAH*SG**Y*/VLALWLTSP LFAVGLGVFGASFGSAEVAINV EGAAGEREMNKTGLPMMHGF YSLGTLAGAGVGMALTAFGVP ATVHILLAALVAQIAAWYKAL QEQIPDFIPRAPQRQMIADVAK TLAGEEGRHLAIEAPTGVGKTL SYLIPGIAIAREEQKTLVVSTAN VALQDQIYSKDLP
5044	35412	A	5085	1	848	MLVGKVVVSEGAFTHTGAVD TSKAYVSLNSGWTHIADITTTN QNTLLNLANLAMSDANVIMMD EPVTRSSVTASAENFITLTNTL SGNGNFYMRDMANHQSDQL NVTGQATAGDSLTLVTTGGGD AAFTLGNAGRVDIGTYEYLL DNGNHSWSLAENRAQITPSTTD VLNMAAAQPLVFDAELDTVRE RL\GSVKGVSYDTAMWSSAINT RNNVTTDAGLRAQAIKTVHHR QNRLIHFSNLNGSTFNVYRHFRR TKTCPKDAETNGKEQGRCQPE CQT
5045	35413	B	5086	75	1777	

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5046	35414	A	5087	1	860	MKAPGLPADQQFFADLFSGLV LNPQLLGRVWFASQPASLPVGS LCIDFPRLDIVLRGEYGNLLEAK QQRLVEGEMLFIPARAANLPVN NKPVMLLSLVFAPTWLGLSFY DSRTTSLHHPARQIQLPSLQRG EGEAMLSALTLSRSPLEQNIHQ PLVLSLLHLCGSVVNMPPGNSQ PRGDFLYHSICTWVQDNYAQP LTRESVAQFFNITPNHLSKLFAQ HGTMRFIEYVRWVRMAKARMI LQKYHLSIHEVAQRCGFPDSDY FCRVFRRQFGLTPGEYSARFQG
5047	35415	C	5088	86	601	
5048	35416	A	5089	1	870	
5049	35417	A	5090	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEE/EEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEAKTQ
5050	35418	B	5091	1	552	
5051	35419	A	5092	2810	3117	LTLSHMAPALIPILAMSAPMT PMKN/LSQVHAQGLVIRDLPLIA SNFRNTEDLSSYLKRHNIVAIA DIDTRKHAACAVPNTLVARGL RKHLKRVAAPQHWIAG

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5052	35420	A	5093	2	1902	LKYPMKRVGKRGEKFERISW DEALDTISDNLRRILKDYGNEA VHVLYGTGVDGGNITNSNVPY RLMNSCGGFLSRYGSYSTAQIS AAMSYMFGANDGNSPDDIANT KLVVMFGNNPAETRMSSGGGVT YYVEQARERSNARMIVIDPRYN DTAAGREDEWLPIRPGTDGAL ACAIAWVLITENMVDQPFLDK YCVGYDEKTLPANAPRNAHYK AYILGEGPDGIAKTPEWAAKIT SIPAEKIIQLAREIGSAKPAYICQ GWGPQRHSNGEQTSAIAMLS VLTGNVINGGNSGVREGATG SAVGEVVFNTSMTGYQEILTD\ LPI\PSNRY\SYP\ILAMSAPMT MKN/LSQVHAQGLVIRDLPLIAS \NFRNTEDLSSYLKRHNIVAIA\ DIDTRKLTRLLREKGAQNGCIA GDNPDAAALALEKARAFPLNG MDLAKEVTTAEAYSWTQGSW TLTGGLPEAKKEDELPHFVVAY DFGAKRNILRMLVDRGCRLTIV PAQTS AEDVLKMNPDGIFLSNG PGDPAPCDYAITAIQKFLETDVP VFGICLGHQLLALASDVEKNVV MITAQNHGFAVDEATLPANLR VTHKS\LFD RYVTGHSSHR*TG\ FSFQRHPEASPGPHDA\AP\LFD
5053	35421	A	5094	8	456	
5054	35422	A	5095	377	1228	KQARGRLCPAKPQGWSCPRPW QPTFC/GQCDLKVRPGVIGDHF GALKFDCPTGFRTCLGRITPLFL PSSPIWNGCIFPIPVPGGDCGEG VQIRSLSCMVHSGSISHAAGRV EDALCGEMPFQDSILKQLCSVP CPGDCHLTEWSEWSTCELT CID GRSFETVGRQSRRTFIIQSFEN QDSCPQQVLETRPCTGGCSPQA RPAAIRQCIPACRKPF SYCTQGG VCGCEKGYTEIMKSNGLDYC MKVPGSEDKKADVKNLSGKNR PVNSKIHDIFKGWSLQPLDP
5055	35423	A	5096	1	519	

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5056	35424	A	5097	1	743	MCPAIDAVLVYVNRKWTNLSDPMPVGQMGTVKYVLMSPATTASYIQLDFSPVQQQKGKTIKLADAGEALTFP/RGVMPKA/PPQLVVPATFLSAELALLQKSFHVNIQDTMIGELPPQTTKTLARFIEVAVAYPKSKPLTTQIKIKKPPKVAMKTGKSLHLHSTLEMFAARWRRKAPMSLFLLEEHFNLKGQHSLHENQLQMATSLDRRGN/YTGFITSYLEEAYIPVVNDVLQVGLPLPDFLAMNY
5057	35425	A	5098	2327	3435	KTTTLEDNLGNTIQDIGPGKDFMMKIPKANATKIKIDEWDLIKLKSFACTAKATTKRVNKQDESLRSHYE*WGMLTDCVVMRDPNTKRSRGCGFVTYATVEEVDAATNARPHKVDGKVVPEPKRTVSREDSQRPGAHLTVKKIFVGGIKEDTEGFAFVTFFDDHDSVDKIVIPKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGRGGGFGGNENFGCGGNFSGHGGFGGSHDGGGYGGSGDGYNGFGNDGGYPGGGPGYSGGSRGYGSGGQCGNQDSGYGRSGSYDSCNKGGRGGFGSGSGSNFGGGGSYNDFGNYNQYSNFGPMKGGNF/GGRRSGP*GDGGQYFAKPPNHSGYGGSSSSSS
5058	35426	A	5099	1	636	MRDPNTKRSRGFGFVTCATVEVDAAMNARPCVVGRVTEPKRAVSREDSQRPEDTEELHLRDYFEQYGKIEVIEIMTDQSGGKKRGFAFVTFDNHDSMDKTVIQKYHTVNGHNCEARKALSKQEMARASSSQRGRSGSGNFGGGRGGFGGNDNFGRGGNFGHGGFGGSHGGGGYGG/SGDGYNGFGNDGGGGSYNDFVNYNNQSSHFGPM
5059	35427	A	5100	1	3622	MTGICYTEDERSYKKNAQPTAASKKQKETQKFLRVDGQQKVKLSVLQEKSAQLTVQLKSQKFLGHPTAGRGRSELCLDLPDPPEDPVALETRSVGTWVRERDLGMPDGEAALAAKVAVLETQLKKALQELQAAQARQADPQPQAWPPPDSPPVRVDTVVRVVEGPREVEVVASTAAGAPAQRAQSLEPYGTGLRALAMPGRPESPPVFRSQEVVETMCPVPAAATSNVHMKKISITERSCDGAAEMKWEDQNIGD

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5060	35428	A	5101	1	782	MRRRLQLDSSLHPPSCFSSTLK CGKAAAAACDSSDQIQLRQT GHLPCASHTICPPNHHSQSTLR PPLPP\HNHTLSHHHSSANS LN RNSLTNRRSQIHAPAPAPNDLA TTPESVQLQDSWVLNSNVPLET RFWCCQRFLVFPGLQLQHLTSL LPVWSHGALPVSLCIFTWLSSH KDTSHFGLRVHLLSLPLEAKYS FYPGCPVLEPAPNPLKGPWCLW GVGTFRRYCTTFLFNESEPKDL VGEKFKSDRLCREAHLQE
5061	35429	A	5102	3	1864	
5062	35430	B	5103	1	525	
5063	35431	A	5104	2	351	RPAVGAEKSNPSKRHRDRLNA ELDHLASLLPFPDIISKLDKLS VLRLSVSYLRVKSFFQVKRQRR EIHGRNCQKKRNQNLKDRGWQ WQMPKMWMTTTRANEGPCRS GPEHWTPRP
5064	35432	A	5105	1	375	RPLQKQRPVGAEKSNPSKRHR DRLNAELDHLASLLPFPDIISK LDKLSVLRLSVSYLGVSFFQG QGLAVADAEDVDDHTGERRP MSFRRPRALDTQALRRTQFGLH LLMVNIAGLIATDRL
5065	35433	A	5106	407	910	NVTPAHYDEQQNFFAQIKGYIR CILFPPDQFECLYPYPVHHPCYR QSQV*LDNPDYERFPNFQNVVG YETVVGP GDVLYIPMYWWHHI ESLLNGGITITVNFYKGAFTP KRIEYPLKAHNKVAIMKNIEKM LGEALGNPQEVGPLLNTMIKGP IQLACQGSRPPAR
5066	35434	A	5107	237	908	HEKPGRQRETRSQNHHHHHHH HHHHQE KIRIQTFTERP*EDTER SDCPQAKKRSPRRNQPC*HLDF ELPAARAATQPVNSGARAGRA GATVPRHTATLLLLHQRRDYA GGSLCDIDRAPDAKQGGKS*ES ETDSRFWKGTVC*DHTAGWVH GRPTTPHHSSPDSRNGGFQLHQ QIALAAGWREGASRPKQEPLQP GPEQGQRRGRREPVGKAPSG HQSHPAE

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5067	35435	A	5108	57	873	SGLCTAAFHHQMEVVHT*SVSS RS*R\PTTPVIAQWAHEQSGHG GRHGGYAWTQQHGLPLTKAD LAMATAECPICQQQKPTLSPRY GTIPQGDQPATWWQVDYIGPL ASRKGQRYGFAYLARNVSAKT TIHGLMECLIHGPHIISDQ GTHFVAKEVRQWAHAHGIHW FHHVAYHPEAGGLEWWNGL LKSQLQRQLGDNTLQDWGKVP QKAMYALIQCPIYGIVSPIARIH RSRNQGVKVEMAPFTITPSDPL AKCLLPVLVTLRSAGL
5068	35436	A	5109	1	311	QITMQPELPIMNWVLSVPSSHK MGHAQQH\QEV AQMPRVSTPA TLPSLPQPALMAPWTVPYDQL MEE EKARARYAGTIQKWTA AA LQPLSRTSLKDSGEGTSKW
5069	35437	A	5110	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEH LTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKI.HEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEEKSSQW
5070	35438	A	5111	1	582	
5071	35439	A	5112	1	635	

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5072	35440	A	5113	2	1538	FFPIGFWRQHPRLSVLLQHIY* VT*KAASFEWGPKEKAL*QV QAVVQVALPLGYPDPADPMLL EVSVADKDAGCSLWQAPIGES QWRS LGFRSKALPSSADNYSSF ERQLLACYWALVETECLTLGH QV*TI*PELPIMNWVLSDPSSHKV GHEQQHSIIKWRWYICDWAVV GRESTTNGLAGWSETWKKHH WEMGEKQIWGRSMWMELSEW SKTVKIFVSYSVAHQCVTSTEE DFNNQWDGMTCSVDTHPLSL TTSVIAKWAHEQSDHGGRYGG YAGAQQHGLPLTKADLAMTTA ECPICQQQRPSLSPQYGTISQGD QPATWWQVDYIGPLPSWKGQR FVLTVIDTYSYGFAYPEHNTS AKTTVNGPMECLIH RHGIPHI ASDQGTRFTAKEVWQWAHAH GIHWFYYVPHHPEAAGLIGWW NGLLKSQ LQCQLGDNTLQGWG KVLQKAVCALNQHPHYGTVPSP VARIHGSRNQGVVEVAPFIITS SDRLAKFLLPVSSSTSCSAGL
5073	35441	A	5114	488	966	ILVGSKGQSVCPGPSSSGTRGSS SPGVAVSNKAAATVGPQ*VTQ QEGGPGSRQRTRAGSPELVPA PSAVEGEEGSWTPGGPQVPRKR SAAPSRQR*HWLRCTPA*QRRG DWPRAAGRCHAARPPAAGSRA PTKISARPTRISRLGPRAASKAQ RLQRL
5074	35442	A	5115	197	421	KLKATMNSFHKS*SCALVSTRP CSPRGDPRATLTTPALVEPPCG TQDPKMAAEAPQRPGKRLGRN LLTRRRPT
5075	35443	A	5116	3	5649	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESIIQ QLQTS LHDNRKEVEDLSATLLC KLGPQGSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGG RDS LMSQAPISNQQA EVTPTGR LGK QTDQGS MQIPSRDDST
5076	35444	A	5117	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER

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5077	35445	A	5118	248	621	TDEPSLLSHTFCPKGALLSACSG ACPLSSGTQAGMPPSTEALQPC RGLTVPHQ/LG*RPQGMLWWK ALAADWSVEWQKGRRGLGKA LSVTSRTGRLLCR*GSAEAAAS PLAASPRSSRALGAGIP
5078	35446	A	5119	2	157	YLGRHLCFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER
5079	35447	B	5120	125	994	
5080	35448	A	5121	1	550	RRYRPRRVQDPGGPAEAERGPP RRLNARVHVCRAEASERAPGP CGRVSAHVERARDPRLE*QLED KAAPRQDFTQQLRGPEKQHRM VWQEKEDMHKQLVEASETLKS QAKELKDAHQQKLALQEFLE LNELMAELYSQKQKVWDKEEE MEVAMQKADMMWQEI*RSKK LRKRMLFSQMRWL
5081	35449	A	5122	135	638	GSFPGPAPLGQTLVTGLAWQS SGWILRGWLVPRAKCSPRGQ ALAICLSLRGLGARSTWAETRP QGPRGSLASLCPAHMDLSIWKT GDGGPRSAFSKVHQGSLNTFG VDTAARRLSQARTAPSPSV\SAP SSAAAPASAGPPPAPGAPPTPA QALRPAPPSRPAER
5082	35450	A	5123	193	610	VGELLPFRFKISLRPFLALCLSSL GPCRQPHSGSVPA*NPLLGPR KSSPHSGCGLAPFAIPELLRRLP LEGAHCPAPEGAA SPPTS WDS ADPPCRETSIFAPPRVVLTPGPS APQASPSQPLLFLTPRWDRLPES VL
5083	35451	A	5124	2446	2630	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5084	35452	A	5125	3	710	EDGDWDQRRGGEAGDQDQRR GGEDEDQDQRRGGEDGNRDQ KRDGENGDWDWKREDENKDQ DEKREGEDGNQDQRRGGEDGD QDQRRGGEDGNQDQRRGGKD GDQDQGRGGEDGDQDQREG EDGDQEQRRRGEDGE*DQRRG GEDGGQDQKRGGEDGNQDWS REGEDRD*HWRRGGGEVGE*DQ RRGGEDGE*GQRRGSEDGDWD RSRGGEDGDQDQRSVGHLCBS QGPPASGCVS

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5085	35453	A	5126	506	882	RCSGQGGFDGNKGTKALPTISA DTTRCWRTLRLVTQMTCRFRRF KAFFIGIMSCGRTGRILFPPCSS MSWIPCRAKNS*GNVISQSPSK NR/WQIMMVIQLLNFYLPGDFV SFRIMLKGNWEVTRTRG
5086	35454	A	5127	107	1327	ERRKRAVGGFDLVLGEQPSDKI FR*VIV*GLALWLPLSKSFVIP AELAINPSAKCKTDMTVMEDA VEVR*VWLQD*GLDSLEVLLDS FGPVRDCSKDNGGCSKNFRCIS DRKLDSTGCVVGLPCKLVVDS SGCYDRHIGVDCSDGFNGGCE QLCLQQMAPFPDDPTLYNILMF CG*VELPARPLDGRSCQLITETC PEGSDCGESRELP MNQTLFGEM FFGYNNHSKEVAAGQVLKGT R*TSYT*N*YQQLPDGLVVATV PLENQCLEEISEPTDPDFLTGE CAFSTLFGYPVLQHWKVR SVM YHIKLNQVAISQGEHCCRLSCD GATSRADFVALLDQFGNHYIQE AIYGFEESCSIWYPNKQVQRRL WLEYEDISKGEWHACWQILSTF PWIVISLHNCLP
5087	35455	A	5128	3	23	FYSAFLVADKVIVTSKHNNDTQ HIWESDSNEFSVIADPRGNTLG RGTTIT*VSIPPSL

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5088	35456	A	5129	1	2462	MRALWVLGLCCVLLTFGSVRA DDEVVDVGTVEEDLGKSREGS RTDDEVVQREEEAIQLDGLNAS QIRELREKSEKFAFQAEVNRM MKLIHSLL*NKGIFLERLISNSS C\ALDRLSLISLTDENALSVNE* LTVN\KCDKEKNLLHVQHTGV GMT\REELVKN\LGITAIQWDQ ASFLNKMP*SHRKMGPVNLPEL IGPVWVSGFLFPPSLVADKVIVT SKHKQPIQHIWGVWTPNGIFL *LLDPRGKHS*DRGNRQFTLCP *KEEASDLPWNLDTIKNLRQKN IHSFIKFLIYVWSSKTETV*GA PWGEEEEAAKEEKEESDDEAA\V EEEEEEKPKTKKVEKTVWDW ELMNDIKPIWQRPSKEVEEDEY KAFYKSFSKESDDPMAYIHFTA EGEVTFKSILFVPTSAPRGLFDE YGSKKSDYIKLYVRRVFITDDF HDMMPKYLNFVKGVVDSDDL PLNVSRETQKHLLKVRKKL VRKTLDMIKKIADDKYNDTFW KEFGTNIKLGVIDHNSNRTRA KLLRFQSSHPTDITSLDQYVE RMKEKQDKIYFMAGSSRKEAE SSPFVERLLKKGYEVIYLTPEVD EYCIQALPEFDGKRFQNVAKEG VKFDESEKTKESREAVEKEFEP LLNWMKDKALKDKIEKAVVSQ RLTESPCALVASQYGSWNME RIMKAQAYQTGKDISTNYYAS
5089	35457	A	5130	45	416	RWGLAMFPSLDNKSETLSQKK KKKDLCPHISFEMDLTTADAR WVQDAATRLLATTRCPPNSRG SR**ISWRAGCCPGGWAGPHW GHDGCL*PSCVSSS
5090	35458	A	5131	3	477	GRLPRHRGGEPGAAQAPAGRQP RGGAAATAAGAPRAGGGAAA GNARRCREAAARDPHHGEESG PEPSQCEGAHQHRAQAGD* GGSGATGEGGRRGHDSHNPLG RVRGSTLPPS**N*VGL*VPSWP QCGPAHPPGQHPALQEIHQRLP LESGGHRVV

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5091	35459	A	5132	3	446	RTGSWGWSASQQRHRKDRGL DSAGSGWVSHLPVPAPPADA RPSASRWRRQGSHPGRPTECP SVQPLCLPPPAGHHRNHSIASPS QTTPPRSLPGSQDKSLFLPRDRR TGE GEGHMN*APLSAPGTSCRS GGSTSWLPEILGPTQ
5092	35460	A	5133	352	588	DIFKVGCCFLFKRLRCQQRFFL LIFSSTQSA*RVSNGPYH*EIK MAVYYGELRKNGLIQESCDNIQ PRQGSFNMDSMQ
5093	35461	C	5134	13	144	
5094	35462	A	5135	587	1078	LSQRFPLSSRIKLQRLSLQNGIP QIKELDYLFRFTNSNQINFNLLSH RVRARPPAPPGRPNPSPGPDPPP EPPARAGSSRRGPGEPRRRQPQ RRFRRRGPDPRGRLSRGL*RRR ARPASPQPRQHHSRGPAGRPGV APRRPAGLAAAAERLTARGAA ASPAIPRA
5095	35463	A	5136	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
5096	35464	A	5137	101	861	LIGYQPKMSRTRRIHSRILPERIK YLGSQILRDVKDLLKENYKPLL NEIKEDTNKWKNIPCSWIGRISI VKMAIL/PQAICGKLKLDPFLTP YTKINSRWIKDLNVGPTTIKTLE ENLGNTIQAIGMGEDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTWENIFTIYP SDKGLISRIYKELNQIYKKKTR NPIKK*VRDMNRHFSKEDIYAA HRHMKKCSSLLDIREMQIKTTM RYHLTP
5097	35465	A	5138	3	314	LKSFCMAKETTIRVNR*PTEWE NIFAIYPSEKGLIYRIYNEATNK DLVRRSGPLKTPKKKSQLTVLN LVTFK RTPALSEEKESAQVLWQ FKKPECVLTSKR VH

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5098	35466	A	5139	1	1278	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPEMQGWVNIICKSI NIIQHINRTKDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIMQEKEIKGIQLGKE EVKLSLFADDMIVYLENPIVSA RNLLKLISNFSKVSQYKINVQK SQTFLLHTNNRQRESQIMSELPFT IASKRIKYLEIQLTRDVKDLFKE NYKPLLN
5099	35467	A	5140	1	430	GGVFFLRTPTDCCGMLQGAAG STGFYASEARPRGPACSLDRGS SSLLSWGLHQDPLFPAKQHRR EAGRADQNSPRRLSTG*QTPT L*RRPAAATGRRRAQPPRATSV SAPASPPCPRARPPHARPPRVL ACQP*ATAPGP
5100	35468	A	5141	1	346	
5101	35469	A	5142	3	1336	
5102	35470	A	5143	5	283	
5103	35471	A	5144	1	1368	
5104	35472	B	5145	1	838	
5105	35473	A	5146	1	962	
5106	35474	A	5147	19	87	
5107	35475	A	5148	41	831	GLQNPQHQSSQLVDLKMKKSL LQCMFQYLIVLQ*YLK*YLGTTQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWIGRINIVKMA ILPKDPTTAQLSPRGSTAQKGH WRPCPLPPRGVPRSPRGPTSHP HHDPCCPGGAPVRNTGSEWQR KLRSQPKSDWAGRAQAPSLGE GGAKNKGSHPGSHRAFSLPRAP RRLGPGSQPGRFRGFLKQARGR AGEGHSAILLAPESPNAQVSNV TSATYRSNLSGLPRPCSVVLLG

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5108	35476	A	5149	1	2233	MKAEIKTFFETNENKDTTYQNL WDAFKA VCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEKEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAIKND KGDITTDPTIEIQTIREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE LRIKYLGIQLTRDVKDLAFKENY KPLLNEIKIEDTNKWKNI PCSW VGRINIVKMAILAQGNL* IYKFN AISI KL PFTFFIGL/EKNLTFKFIW NQKRSRIAKSILSQKNKAG\GI TLPDFQTITYKATVTKTA\WYW YQNRDIDQWNRTEPSEITPHIYT ILNFDKPEKNKHGGKASLFIK WCWENWLAICRKLKLDPFLT PYTTINSRWIKDLNLRCQIIKTL EENLDNTIQDIDIGKDFMTKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPIEREKIFAIYP SDKGLISKIYKELKQIYKKKNK QPHQKVGEQYEQILLKRRHLC QQTHESMAHHHWPCREMQINT TMRYHLTPVRMAIKKSGNNRC WRGCGEIGTLLHCWWDCCLV QPLWKS VWRFLRDLELEIPFDP AIPLLG IYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYAAIKID
5109	35477	A	5150	1390	3491	DLTTRTACAVPGWGCSSRATC QARGWRLSSPPHPSGVQPLLC HLPYPPSPFSLLSNLTPFLRAFPR SLETS*KWART/WPGAVAHAC NPSSLGGRGRWIT*GREFETNL TNMEKPCLY
5110	35478	A	5151	310	445	YLTKIWPGAVAHTCNPSTLGGR GGWIT*GQEFETSLANMVKPHL Y
5111	35479	A	5152	44	1132	PQVIHPPRAPKLELEQEPWRW DLNQDTPSALCQH*RTC*HRAE GVSWFKSWIHLGGSCNSSLGA RGGWIT*GQEFETSLTNMAKPH
5112	35480	C	5153	183	323	
5113	35481	B	5154	504	2474	
5114	35482	C	5155	66	269	
5115	35483	B	5156	2414	3096	

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5116	35484	A	5157	9	239	HHHYCQHHHHHHHHHHHHHHH LPAPCRNLRV*PVCFRYKLWFH YGKQHLLFLDFLLSHSEWC VSHCGFDLHFSDD
5117	35485	A	5158	3	387	TDTKPLSCSSCPGRGKPVSHR DQ*RRWGRRCRGEPGTEACWS AGALQF*KPRSRGGRTSKMTSG PSAEKGGG*AGRKPGRRHFGRR VLRHSCVLPVARELWGRHGPC GWRQKNVPWKWSELLPVVAP
5118	35486	A	5159	1	277	MPPPPPPSESPGPGVGSRLPPG PAVTGNEKELRGNP*VGLAPPR PRFRASRREGVTGKVHRPNRLQ LRAPPKG*SDQRGQNVPPSEAK SLC
5119	35487	A	5160	1	3285	
5120	35488	A	5161	3	194	IPLSLQSKEVGQQLQDDLMKVL NELYSVNQMGCAL*QAEGSSI WQLAAIVHQQQN*TPSWGQ
5121	35489	A	5162	520	844	VQAPGKCHAQMPAAPVPLG RSRNPGRLASAVPVSSLLRFLPF LQPIPPSDILPLSFEAVPSSPAAE SGLHPCTRRRKRAPSC*VPGL LLSPQHPPPHVWRKGIL
5122	35490	A	5163	1	794	FRGFLDRGDCAALPCTYPHSPC SH*GGNCLPSLLTRPCVKA*PQ MSGRKSSMRRWRRQSRLTAGT SS*TPTSSTMC*ALVGSSTWNC MLQAGSTAPGAGTPGSRPTWS SSSTCSWTAPSGRARCACASS SCAMSAARRGWTSPACWRRTS RAWWTSSPACASSATASVAA STASTWPAARTTGGTAESSARP ARRASCTGSPARSCWRRRRPPT PSPGRPAPPSRRTRRAQAGTSA LSPGACFGPRSCC*SSTCSSLSV APY
5123	35491	A	5164	3	57	RIGQGVVVHS*VEGGPNVISIV LEYLRDTPPVVVVCDGSGRAS DILAFGHKYSEEG*VKVFLWC THKWKEDPM
5124	35492	A	5165	1	1326	
5125	35493	A	5166	2	337	YSVTMTPGKLRTLCEIDWPALE VGWSSEGLDRSLV*KVLCPEL VPSGGFLVSLTSRMKPQTLTGS VKVLKDGMSGVCSFRCDVSR VSSFWWWVRGLAGWSTLLRKL
5126	35494	C	5167	339	548	

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5127	35495	A	5168	3	413	SQAFLPAASRRERPEPVDPKA TDPRSGTRRLPPRLPCQWTTPE HSHTSQLNLSRAFPKEPNPAAT Q*NPSGASPRERPHARAQEDRN GEC*EGNGSRPDLEEEASTPRA SPTPSD*PLWLHPPRPLVLETPL LQL
5128	35496	A	5169	3	479	FLHSTHIYWAHSMHELLKTAV VSISGQCTSLNTESGIWGGVPE NAR/CPPAEGTVPASLQPRDPPR LPGSH/ASLPASPPSRHVTWPP EP/EAAGPKPS*IRCRWPPAGAT TKANPKESGRLVESMLPLPKSR SAPVTFSAFACSGLPERVHEVF RVGKLR
5129	35497	A	5170	81	329	QSVSSPSWFPQFPVQVQKPCY QVYRGDLVV*KHVAPPPSLPSS FSGHVRHDCFPFAHDDRKFPE ASPAMLPVSSLGPHYL
5130	35498	A	5171	335	467	MPSTPTARKPESPEALARVESIA CLPSPAPHECSPQASEETG
5131	35499	A	5172	1	2424	
5132	35500	A	5173	2	304	CLTKNTSATREKQVTELHRRSK LQPEPAKTKALQTVIE*KDITLC *VKEHLYIVACWALRLHLVFLP TKAGISPALMKVSYPGKPLTLK QLGRLVILQEQ
5133	35501	A	5174	44	286	GVQNGVEELILVRRMQKSPGP GEMESGSLEKEPLGTQTGPVPS EGTE*TQGPPRTPSLQTQGPQRT PSLQTQGPNTPSL*TQGPLRTL SLQTQGPNTPSLQTQGPRTPS LQTQGPQRTPSLQTQGPNTPS
5134	35502	A	5175	206	384	KRVFAHQADGRARSGFISSAGP GSQAGPGQGTG*QREDVEAAG QPGSTAEGVRT*SDPG
5135	35503	A	5176	270	818	RNERKPSQRTAVGLGAGQLQP GQPGVQSEEPGLEAGCAAGV LPGPAEQDREGIYSK*KRVFAH QADGRARSGFISSAGPGSQAGP GQGTG*QREDVEAAGQPGSTA EGVRT*SDPGSSHAAAAFYEN IQDGEALGRCGAKRTATAAP*Q RG*EGF*AGPTAAEKNEEGPPP VFSLFNSHL
5136	35504	A	5177	122	436	LTSLFSAISTKAKVSPLC SARAC SPSPAARAALGSPGFTC*GAGV APTPVPVAAPAPATAPATAVAA AATTTVVSAAMFTRRATRAAA ATGAWGFVAGAPWPLQT

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5137	35505	A	5178	20	1341	MRRCVAAPLAHRW*QKLGLPG CTPTVCSFLSPQPPRARSSAT LSSGAPRRAATPQPQTTPSSVQ PCAATPCARGGRPAPAGVTWP TTRPSMA*RTS*ASTTAPRMAP PRSHACARSHRPETARSARTAP RSAITRRRAFTSTRPPPTTRTVAS SGHTSGLSPTASRLARCRAPG RSSTIIT*TCRSPTRLCCPAQRPL PPASSPSSSRTSRSVWTRRCTRL RWTSSRPPSWMALRTVGTSTGP TA*RSLRRCQASTWRSRPSTSA PPSWCARWAAT*PLPSACQRK WSMLWRTGTARVSTSACGAAP STSRSTSRPSTPMLRAPVPAGW QPPALHPQPPRPSHTRQPWPSA RRSCRWRTCTTRPASSTSSPRA T*TSHWPPTTRWRMSRCSTPTK TNCTCMRGLGTCQAGRLRGCP WPPGPSWAPWSRSWPCSLCSA
5138	35506	A	5179	47	598	ASGPASIVVLRQQFIKFFLDEICS LEERVWCRKLCCLYLWKEPR AVQAKSRCSDIRRELYRPVSLA GLSGDFLRAGRYSAHTVNGAW SAWTSWSQWA**SRGLLLALH NMLKIIAFCSLQVATRIQSTFIS SWHLSPSLLGSRFSLYMSFGS VLCPLFISHDTSSYSTKSFSQSFSC LGVW
5139	35507	A	5180	236	690	LQNWSYLAEQCWNGGFIYLM LRRFKHKAHSTYNGNSSNSSEP GETPTL*LGDR TAKKGRTRKF GVISRPPANKAPEESKGSAGCE VSSDPSTELENGPDPELGNGHV FQLENGPDSLKEVAGPHLERSE VDRGTEHRIPKTDAPLTTSN
5140	35508	A	5181	2	480	WPFWAMVQRPSSAILCGPATLP PNCRGACCARCRATGALSAYP AIHRPATRPPAPPAGPLTSPPL SVQNSNPDLPSARPSGPAAPR HARHSPSELPA TL SARGSSAL CTKLKVEAAA*SCSASAWNWR LLPRNHVDSRCQPEPDGARARD GRGP
5141	35509	A	5182	3	153	
5142	35510	A	5183	3	239	
5143	35511	A	5184	1	394	
5144	35512	A	5185	1	435	
5145	35513	B	5186	84	2068	

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5146	35514	A	5187	149	832	DAGLSWREATRPGAPLHRPGC QDASTQMTRPGDPGSSALFPLP SP*PEREELPMSSRRSPKPELPG EACSRPPTRRPRRTATRGPPLN GRLPRARLPVSAGAGALGGGR CRRRVAPRRVTPRLATRPSGVA PRGSG*AATTKLSLAFGVTPLA LTPWSRTPFKREERPPF*YPRP ATPEASPAHVENFRSNQTRYTS AE*SGQQLERPSIAEISAQATVE PRSTI
5147	35515	A	5188	45	312	AEAQGGAEAEHGGGGGPAPS QGCPARAAGARGWQPAPSPQK PATPSDTTPPPRTQPPVTQPCHP VTQPPVTQPPVTQPRHPMKIPPP G
5148	35516	A	5189	15	549	PRHKEPESQAPGRRAPQAAAY QQAASPAR*QGGSCSRCPGP*A VEAAPAP*GQALGCVSQGPA*V GPTRSPHPTAGLSRPHGPPSVRS TGWSPSSRPLQAQEAPWPVAPT HIPPLDPGQPHSCGLGAGCQP RAPAARAGHP*EGAGPPPPWP SASAPPCASAPVLWLRFPRET KT
5149	35517	A	5190	1	2445	
5150	35518	A	5191	1	708	FSEGRNRFLNVGPTRFSTSRQTL MWIPDSFFSLLSGRISTLRDET GAIFIDRDPAAFAPILNFLRTKE LDLRGVSINVLREAEFYGITPL EKIKMEYCFSVCMYS*QVCFE MFLVRLLLLCEELERSSCGSVL FHGYLPPPGIPSRKINNTVRSAD SRNGLNSTEGEARGNGTQPVLS GTGEETVRLANTIDSKYVAND DWLIFQYVDEEDLMNAIKDFSS VTKERTTFTDTHL
5151	35519	A	5192	31	330	YGGTATVQRWAESRHVPFPPS QEQNANKICSVCEEKDSADSY GEIPWWQGPWCWPVRLMLAT LGDYKWVLTGIGTDS*LGFTIPT DHANAFSAKEIPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5152	35520	A	5193	1	734	MISEVIVIQMLFLHAFSKVFSAL IKNNKKPLQDAQIKWKAISGLS GGMRRSECNRRERDQVTRTQCR DISQK\RGPGD*GMATSKNGAM A*QLGPGCQGDASTGNAEFGES AHAWSGGGRVPGVTGPDREEV GRSWQGTSCGGGTSGCGRLQ* DGVASRGRW/DPARPREQRAG VRQLAAPLGGP*SRRPWEPGG SSCGRYLFAISSWSGVTVAQEG QRKRGS GK*RTERSGPGLGRRRL PLLLLTV
5153	35521	A	5194	3	449	EGQRSSSPATALSSSGPPSLKM ATSKNGAMA*QLGPGCQGDAS TGNAEFGESAHAWSGGGRVPG VTGPDREEVGRSWQGTSCGGG TSGCGRLQ*DGVASRGRWDRR DRASSGRESGLHHS GARSLG APGSRPVEAPAAGSEAKTPG
5154	35522	A	5195	606	841	CTVGFALPVFY*GFSH*CSSGIL V*NSRFLLCCLQALVSG*CWPH KMS*GGFPLLLLTGIVSEGMPV ASLCISGRIQL
5155	35523	A	5196	620	930	IPFISFSLIALARTSNTMLNRSG ERGHPCLPVPVFKGNASSFCPFS MILAVGLS*IALIILKYVPSIPNL LRVFSMKGC*ILSKAFSASIEIIM WFLSLALFI
5156	35524	C	5197	1	819	
5157	35525	A	5198	591	815	
5158	35526	A	5199	187	387	FFKTICFMRVRVKRPPNRLCVS NMAVYFTWVQAGLHCESYPEH L*WSCRLPRRLGGVRL*PLEGE
5159	35527	A	5200	1	1197	
5160	35528	A	5201	119	375	ILDISPLSDE*IAKIFSHSVGCLFT LMVVSLAVQKLFSLIISHLILA FVAIAFGVLDVK/CLVHAYVLN GIA*VFF*GFYGFRSNI
5161	35529	B	5202	1	1053	
5162	35530	A	5203	2	157	
5163	35531	A	5204	12	176	
5164	35532	A	5205	2	223	QTVLEDSPRARWIF*G**GTIC SIPIPSFWWFSSNLSHSFVCRSP SSSPGGLPMCTCVSKFPWAVW PFSRY
5165	35533	A	5206	61	308	

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5166	35534	A	5207	487	898	DFAEVAYQLGISSGVCRTTDFH EPRMLLSDRSSGSFVTI\SVFLS FSSLKCL*SPLVHDALHQAHP GKSRLRFLGSMACCMKFTCPP TLSTVPSSTPFSFCSLIKTRSAT LLKLWSISLRFRLHSWSSAFRV
5167	35535	A	5208	9	191	IPQHIYPPKTKPGRI*ISE*TNNR L*NCGNDQ*LINQKESRTRWIH SRILPKTNREPNHE
5168	35536	A	5209	1	1989	
5169	35537	B	5210	1	1488	
5170	35538	A	5211	929	1209	IPFISFSCPIALARTSNTMLNRI ERGHPCLVVPVFKGNASSFCPS MILAVGLS*IALIILRYVPSILNL FRVFSMKGC*TLSKAFSVSIEII
5171	35539	A	5212	242	642	FSLKRSFTSLVSWIPRYFILFEAI VNGSSLMIWLSVCLLLMYRNA CDFFPLILYPETLLKLLISSSSLY LW*NSAVNLSGPGFLVGRLLII ASISEPAIGLFRDSPSSWFSLGR VYVSRNLSISSRFSSLFV
5172	35540	A	5213	747	885	
5173	35541	B	5214	115	1267	
5174	35542	A	5215	209	322	
5175	35543	B	5216	1	3321	
5176	35544	A	5217	390	655	CLFPVHYPRLHAMMHQMKNP VLVLGIGGFILGILGVIGGPVSLF KGS*KLLGLIETGKISLDHPVPG GTPTKMALYEHFMNTKEFGIE
5177	35545	A	5218	3	221	
5178	35546	A	5219	798	914	FVFLWDRW*YPLYHFLCLFDS SLFFSLLVLLAVYQFC
5179	35547	A	5220	12	460	YLCMLHEVLVLCFSVPSGHFSF SLN*LF*LAVPVTFYQGSLFLA QA*ASQVDFRQLCWQQEFQAS GS*LAGLHGSGIH*ARPLGSWL QLPFQSEWFCLSGVPGATVVS /CTF**SPF*LV*DGISLWF*FAFL *WPVMMSIFFMCLLAA
5180	35548	A	5221	3	508	AERNGSRQGVGAGAGDHEVLQ LLPDKWKQKILCPVQLLRGAW SNYYSPDANRQP*VQGNALHF AECWPHGEDSQPTVPTSQGRM LAGPARHLPHPHVPSPSGSLRG SDSEDTH*GTVAGSGCLHCLAP GHLHPGWPPSRVLPIDRSVHQ GPGRKAPPTPPRVTPFLT

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5181	35549	A	5222	584	1052	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQ _R SL QH _Y HHHHHHHHHHQH _Y HHHHHHH HLD _T GW _R GE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHR _C I*LT GIEAA*CHSL*PYQKDACHHFE EHSPPP*RPHLPRHHLHPQPSS
5182	35550	A	5223	1614	2308	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQ _R SL QH _Y HHHHHHHHHHQH _Y HHHHHHH HLD _T GW _R GE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHR _C I*LT GIEAA*/WS*PLTL _S KRCV _S PLR RAQSSSVTSSTSAQASSAP _E KK *L*PERPYSSPHASVADLQMC LPLNRITGQTNRPLHRAILLRW MRSCNLLTCTVLSNVSFSELS YSRNTMCRG
5183	35551	A	5224	3	407	SVGLILPSSLQH _Y HHHHHHHHHH QH _Y HHHHHHHHHLHQ _R KLAP _L LC* ADLPTCAPHQGIRPFGGFPQTS GSPGLPVYAE _E EQTERLSLQGT GCGCQAGLLCWGPPVASTSVG FSLESSVSPEQVPLSPGPAGTDA
5184	35552	A	5225	1	1287	
5185	35553	A	5226	3	1315	STMALLHSGRVLP _G IAAAFH _P G LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMN _L G VGAYRDDNGKPYVLP _S VRKAE AQIAAKNLDKEYLP _I GG _L A _E FC KASAEALGENSEVLKSG _R FVT VQTISGTGALRIGASFLQ _R FFKF SRDVFLPKPTWGNHTPIFRDAG MQLQGYRYYDPKTCGF _D FTGA VEDISKIPEQSVLLLHACA _H NPT GVDPRPEQWKEIATVVK _R NL FAFFDMAYQGFASGDGDKDA WAVRHFIEQGINVCLCQ _S YAK NMGLYGERVGAFTMVCKDAD EAKRVESQLKILIRPMYSNP _L N GARIAAAILNTPDL _R KQWLQEV KGMADR _I NGHAGLQLVSNLQ _G REG\STH\NWATHSPTKLGMFC FHRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHA _I H
5186	35554	B	5227	57	386	
5187	35555	A	5228	1485	1883	
5188	35556	B	5229	117	641	
5189	35557	C	5230	1	552	
5190	35558	B	5231	250	378	

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5191	35559	A	5232	3	1117	TPDPGQGCSEGGIVHETRPSPQP LCQGSCAVGCSPLGLLR*RMM ALGKIPPGHRGPAFLPAVESAH VVPGLPGLTRETLPAPLGPHRPP QPPQGPLSTAPPAPLVSPLGPHV PGLPGPPPGCPSPLPLRPCPPPS WLRPHRPVQPWWGT*GSGWRP RCRPGAAGRNPGLPRACCRGL CRGPH*RPGGPRPGHSGPRTSS WGRTMGNRPRPSASAG**PRHR R*TSAERPGSPQQSASRTGGRS PLSHPGSWWGVMPGLWAG APSMWG*GPGSRVAGGSGRRP TSPRPHPYPPHPPGTWPSPAQS GRR*QAQTPGAATEG*GGWGL PPKPWCPQDQFLGVQDWVLP NGARVGGTWA WKRESVLVPG
5192	35560	C	5233	229	522	
5193	35561	A	5234	1	972	MTAEYYKLKQVVTPIAAAVPD VVSLLQINISLCTWYAVIDLG NACFYIPVHKAHQKQFAISRHG QQYTFTVLLQ/RRDLDFSLPQ DITL\VHYVDGIMLIGSSEQEVA STDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKV KDKLLHLAPTTKKEAQH LAASFEGWPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVS ADRDVWSLWQAPIGESQWRP LGFQNKALPSADNYSPFERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQHGLP LNKADLAVATAKCPISQQQRPI
5194	35562	A	5235	3	246	
5195	35563	A	5236	3	841	
5196	35564	A	5237	1	746	RDLDLFSLPQDITL\VHYVDGIM LIGSSEQEVA STDLLVRHLHA RGWEINLTKIQGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSADRDVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPFERQLLACYWALVETE ATPVITQRAHEQSGHGGRDGG YAWAQHGLPLNKADLAVAT AKCPISQQQRPISS
5197	35565	A	5238	1	483	
5198	35566	A	5239	1	1908	
5199	35567	B	5240	1	2718	

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5200	35568	A	5241	522	693	LDFFLVFLQQFLPRPSSEI*MLP GFPAAAYGPVAAA AVAAARGS GRKVYGTGDSQA
5201	35569	A	5242	1	225	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRKEALYYLDLTASCQSQEL FQKWVSLCCPD*S*TYSPKDH SSSQAMEQSWTENGFEKLGR RKEALYYLDLTASCQSQELFQK WVSLCCPD
5202	35570	A	5243	1	1129	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITDPYAMRLYK\SL CQYRAVNGGGEEKARGKPIL CRYGVGM

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5203	35571	A	5244	1	1753	MVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTAFGRRVSGVIEI ADGSRRRKAAAALTESDYRVLV GELHDEQMAALYRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISHLHIHAEDTFLPFY LGKKDDVTYAIKPTCWPLDII PSCLALHGIEELMGKFDEGKLP TDPHMLGLAIETVAHDYDVIV IDSAPNLGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRDL LKNVDIKGFEPDVRILLTKYSNS NGSQSPWMEEQIRDAWGSMVL KNVVRETDEVGKAVINHKKGK NSPRMVQSNDLTKAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSLAGKEVVFYRPE EDAGDEKGYESFPWFIKQSEE/P QSGNFYTDTLGMAEFRRGGLR ATAGPRLSRTRDCQGTEKVHG KTVFDKTVP/WVPKRLKSPSCK NRWP*KMQKLSVCTASSPGQQ LSTVRVTQREICFPVVRREVL IGTLTQTRKGQISVRA
5204	35572	A	5245	337	1977	

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5205	35573	A	5246	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKRRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG/LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
5206	35574	A	5247	1	1383	
5207	35575	A	5248	1	1731	
5208	35576	B	5249	1	1290	
5209	35577	B	5250	1	3345	
5210	35578	A	5251	1	1959	
5211	35579	A	5252	3	2356	
5212	35580	B	5253	334	1710	

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5213	35581	A	5254	1	1302	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPV NVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEQNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGHIENNDYTLK KVMKPLITSNTCDNLKTCHTSH GSVMAETAVINHKKRKNSPRIV QSNDLTEAAYSLSRDQKRM LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPE/EDAGDE KGYESFPWFIKRAHSPSRRLYS VHINPYLIPLLYRVPNRVTQFRL SETK/EITHPYAMPLYESLCQYS
5214	35582	B	5255	1	1452	
5215	35583	A	5256	1	1323	
5216	35584	A	5257	1	1557	
5217	35585	A	5258	1	2259	
5218	35586	A	5259	1	2418	
5219	35587	A	5260	1	1218	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPVI GVAHKERNQNISRYISNRLAR RECHDSPEEGTGNTRSKERLQG RLPSRGLTESQEHLLDTRKQFW FEDFKDGLGPILKCDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLSAS NYQRMDFRRRFLQVCVMEIN KQTSMLSYI
5220	35588	A	5261	1	2028	
5221	35589	B	5262	1	1653	
5222	35590	A	5263	1	1446	
5223	35591	A	5264	1	1788	
5224	35592	A	5265	22	1893	

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5225	35593	A	5266	1	2144	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGFIENMFF VSANPWVSFTSFDLNVANMDN FFAPVFTMGKYYTQGDKVLMP LAIQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWME EQIRDAWGSMVLKNVVRETDE VGKDTGVRKISGVKMPMGV AVVNCCTYGSDYRVWLASWM MSQWLHYPEWYRKENKHKFY PAFIHILARLMNAHPEFRMAMK DGELVIWDSVHPCYTVFHEQTE TFSSLWSEYHDDFRQFLHIYSQ DVACYGENLAYFPKGFENMFF VSANPWVSFTSFDLNVANMDN FFAPVFTMGKYYTQGDKVLMP LAIQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWME EQIRDAWGSMVLKNVVRETDE VGKGQIRMGTLEFFRLSETKEI TNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCDNLKTCHTSHGS VMAETAVINHMKRKNSPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASMDIQHAL KSFSGKEVVFYRPEEDAGDEK/ GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFLLSE
5226	35594	A	5267	1	1167	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYNV VFALAGSPEDADDTSIYMFYQK CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK AHSPSRGFYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAMR LYESLCQYRK\PDGSGIVSLK/ID WIIKRSQLPQSAFYQPFMGLRR ESFYFRWERRTLGPLKSFVSKR GTEAGKFRLAALLVRL
5227	35595	A	5268	1	1395	

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5228	35596	A	5269	1	1375	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KIRRKNGPVSATFTSDGKIRLFY TDYSGKHYGKQSLTTAQCDNL KTCHTSHGSVMAETAVINHKK RKNSPRIVQSNDLTEAAYSLSR DQKRMLYLFDQIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSL/KIDW/II/ RYQLPKVPSPEARKITRRWRIV KQRI*LGFLRLSEMPRKQGDY RTRIWKFEGLSNVLVIQLNKLI ICVMCLVRDCDVLKTYFHR
5229	35597	B	5270	1	1668	
5230	35598	A	5271	1458	2675	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIK AHSPSRGLYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAM/R IPLH*LFR*TLRQTKPDNSAGKC VKI**HTQNQRSGRSQND*RR GI
5231	35599	B	5272	1	1317	
5232	35600	A	5273	1	987	
5233	35601	A	5274	1	571	
5234	35602	A	5275	1	4161	
5235	35603	A	5276	1	1228	
5236	35604	A	5277	387	3466	
5237	35605	A	5278	1	6721	
5238	35606	A	5279	1	1651	
5239	35607	A	5280	5082	5879	
5240	35608	A	5281	1	231	NHLAVRRLTELSGGQRQRAFL AMVLAQNTPVVLLDEPTTYLDI NHQVDLMRLMGELRTQGKTV VD*VRDLNQVSRYC
5241	35609	A	5282	1	303	CLRILCPYPYIPLTEKTLA*PAL YTLELTADMAETCKQFLPEFSL TFSFQRGWKETEYAEVLERNF ERDRQLTYTAHGPHKADLRIQE SGVPYNEILVTL

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5242	35610	A	5283	1	273	TNSSVGPGDRLL*QTAAPHRGK LKVFFGACAGVGKTWAMLAE AQRLRAQGLDIVGVVETHGR KDTAAMLEGLAVLPLKRQAYR GRHISEF
5243	35611	A	5284	66	1200	HILPAGHPTLRHSLFPHQQGRSS VQSALGAASGNLKLVRFEW GPSRRARSGYPDATGYDQPKPI SAAVKEFFGSSQLSQFMDQNNP LSEITHKRRISALGPGGLTRERA GFEVRDVHPHYGRVCPIETPE GPNIGLINSLSVYAQTNEYGFLE TPYRKVTDGVVTDEIHYLSAIE EGNYVIAQANSNLDEEGHFVE DLVTCRSKGESSLFSRDQVDY MDVSTQQVVSVGASLIPFLEHD DANRALMGANMQRQAVPTLR ADKPLVGTGMERAVAVDSGVS GGVVQYVDASRIGIKVTKTRCI RVKQVSTSTTLPLFLMESNPLF WMAVLVSAGILGQWPIGRAD KFGRLVLVRVQVFVILGSIAM
5244	35612	B	5285	1	862	
5245	35613	A	5286	1	579	DPRD*RLKVAK*MVTLFGPQFV RELQQRGFDIFDLKFHDIPNTA AHAVAAAADLGVMVNVHAS GGARMMTAAREALVPFRPDAP LLIAVPV*RSIKASDLVDLGMTL SPADYAERLAALTQKCGLDGV VCSAQEA VRFKQVFGQEFKLV TPGIRPQGSEAGDQRRIMTPEQ ALSAGVEYMENGRPGTQSVK
5246	35614	A	5287	484	978	GIVRIPHLADIKCWRVAVLYNY THYSYQANLCCANLE*ADLSGS VLDCANLQGVKMLCSNAEGAS LKLCNFEDPSGLKANLEGANLK GVDMEGSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKGAIF EEMLTPLHMSQSVR
5247	35615	A	5288	3	504	YRLSQSSSKSLVSRSWLNMRFIS SVMFMEPTSSSENRTSPSCSE MSSSEATLRSFFLGTTSPCRSM VGLQLVKSSQSSSVSSFSSHVRL SQSSSKSVSRLAGT*EGSEKRS FREEKVPCLRLGLPESTLYAHC SV*SRTHVFSGTSHHSSKVAVG MSIVQMRKL

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5248	35616	A	5289	2	442	HVIWHMPRKTSKCRQLCSGA SRNADTAARQSTCSSHRPPGKIP SLGPRRVPGCSSVPSSRGEQSTG SPAAPRCGDVTHTEASQEEQP* LRGTHGPASTPEQGTAKAKVR DRRAVVHPGKTGIPSAAG*KGR GRPGEPPGAHVQVE
5249	35617	A	5290	151	1185	YVDQVTHITESPLPSVSYSFAFG SLISAVDPVATIAIFNALHVEED TEKGHVRLTPASPSTFFFFSTE EKYAPGSCCRKAAVL*LLHISH QLSLDSPSLTVVIYVLKHIDLRK TPSCRHCEI*VGHTAVLSVLFS PSLGIMAILFSGIVMSHYTPREA SP*SCCLFTVSSHTVCCHPGLRG AIPYALSLHLDLEPMKRLQIGT TTIVIVLFTILLGGSTMPLIRLM GLPGGAPRWQQLVAVGPPFLP AQGNTVESEHLSLTEEEYEAH YIRRQDQLSLFN*N*SCLWPSPC LPPPP*TPHTKHPVASPPFHGPA PDALTAWLCLSTQDLHHGRIQ MKTLT
5250	35618	A	5291	5	198	VCGRQQSLEAGL*GAATPFAVF PRPWSAVRVKEYGYTRLHILN GTHIHQQVSDDAQAFACHPP
5251	35619	A	5292	137	308	HLERTGPNLPPGARLATRPTTR LPAASPRGRDTPLPIPISEYSETE AKGEAPYIEPE
5252	35620	A	5293	612	1078	RPPEKKERGRRVRGRRGGGGK RRRRKRKKRKSGKGREDA AAAAQSPRTRAPAD*ERRPQP APSARAPRPLLPAPRRSRPAQV PPDSASPWAAAAGLALPPQCP GGGARPLRLLPQPPAPGGTAR WEPRRPRPAAAPGLLQSPGPLP RQS
5253	35621	A	5294	515	817	LALPHLPSNLLKGLKKA*S RPSRTPSFG*LSQWKHALKRLK PVITCLLQHGFLLKPINSPYNSLIL PVLKPDKPYKLVDLRLINQIV LPIHPMVSQA
5254	35622	A	5295	1	951	
5255	35623	A	5296	1	1077	
5256	35624	B	5297	87	1423	
5257	35625	A	5298	29	234	
5258	35626	B	5299	77	327	
5259	35627	B	5300	1	235	
5260	35628	A	5301	2	2144	
5261	35629	A	5302	1	855	
5262	35630	A	5303	845	1057	

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5263	35631	A	5304	1	933	
5264	35632	A	5305	1	954	
5265	35633	A	5306	1	1603	MEAEKFHQMPVSRRTRKASG VIQSKSENLRTRGANSHALKRL KPVITRLLQHGLLKPINSYPNSPI LPVLKPKDPYKRFLAFYGWSPR SLIVDSCSKLEQHSTLSRVILVIY KGFCRFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVACL TGEKKNHPGAQYANRLSPRVG RFINAAGTTGFPTGKRAVSATQ LMDFADF GTTITQDFRLLGQTS VDRLLQLSQQA VKGNQLLPV SLV KRKTT LAPNTQTASPRALA DSLMLARQVSRLESGQSSQLS SLRLTLPDLRSPLDHHGRRAS GNSHSGSPKPPSCLPLISPHLNP QVWDISTPSLATDHMPITIPKLS NVTLTPLNLKCQYPIQHALKRL KPVITRVLQHGV LKPTNSPYN PILPV LKPKPYKL VQDLRLINH IVLLPIHPMPNPYTLLSSIPPSTI HYSVLDLKHAF TTFPHPSQPL LAFTW\TDPDIHQAAQITWAVL P\QRFPR TGPHYFNQAQISSSV TYLGIIKITYVLSLPVSD
5266	35634	B	5307	1	874	
5267	35635	A	5308	144	539	
5268	35636	A	5309	1165	1639	PHPAVASRRGRAGPGGLSAPER TPSSELSPLSKGDLRKTHRTFSP Q*GDLRKTHRTFSTR*GDLRKT HRTFCTR*GDLRKTHRTFSTR* GDLRKTHRTFSTR*GDLRKTHR TFSTR*GDLRKTHRTFSTR*GDL RKTHRTFCTR*GDLQKTHRTFS TR*GDLRKTHRTFSTR*GDLRK THRTFSTR*GDLRKTHRTFCTR* GDLRKTHRTFSTR*GDLRKTHR TFCTR*GDLRKTHRNFSR*GD LRKTHRTFSTR*GDLRKTHRTF CTR*GDLQKTHRTFSTR
5269	35637	A	5310	235	453	SHWPWLCSSTSCSSQRSIVSSG MARGPFLRKRDLLFPPPPGSH GLELLEIIFHQGISQVHLLHLQ VWL*NLNVPDSSLPAENEATGP GFVPPPLAPVRGPLFPV\ARGP FLRKRDLLFPPPPPG\AM\FGASR DYFPPGDFPGPPPAPFASMAFL N

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5270	35638	A	5311	2	2333	TGRGYCGDHESFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKS EKFSLVQKEYEGYEVESL SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLESQKQLL QEAQVWKEQVSELNKKQVTFE DSKVHAEQVLNDKESHITL RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQLKVMTELYQENEMKL HRKLTVEENYRLEKEEKL DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPWDQDRRMMFPPPG QSYPDALPPQRQDRFCSNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPVAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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5271	35639	A	5312	141	2788	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSGLIEEKSLLLE KFSLVQKEYEGYEVESSLKDas FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSXHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQQLQESQKQLLQ EAEVWKEQVSELNKKQKVTfED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKHEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFELLEKDPYALDV PNTAFGREHSPYGPSPLGWPPSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRRMMFPPPGQSYDPS ALPPQRQDRFCSNSGRLSGPAE
5272	35640	A	5313	217	447	FQRMSGL*GYSPPLGGQPAL*E CQGAADSAGG\RLDSESLGR PAASGPNTALGWQAQPWS*Q AGPELPRAEFLQA
5273	35641	A	5314	3	287	TLRNRHRELRTCLSGPGLGLPT QVSVVAGGCCVCPSSSQSPVPR PPALSAAPWHSRAGCPPSGGL *PQRPLILWNQPLSNTLLEKELA PPPAH
5274	35642	A	5315	3	468	ALARSPAG*QSPDGDLCFRHR KGERRPAAPAGQCPAGRQRHV PAAGRDGKPGRAPGADR*AGPI LHLYHLPAPCGGGTPGDSNPRR APAQRSE*CTPPPPQ*RNNRKPS TRAGLLLP*HVQLSGGLTLCP GDRVS*WPQGVLAAPGPGPCT HL
5275	35643	B	5316	64	288	

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5276	35644	A	5317	73	265	NGRTSRCFSPGKH*EYCSGTFH PLQVVGKIYSNLDKIL*ASRAR WGLCSRKPGYWSCTQPPTSS
5277	35645	A	5318	125	461	
5278	35646	A	5319	298	593	LGVEVEPVTGGDAVIGASHDAF LQVNIESIVPEHSTRCKLLGKFI RIWIKYFRHLVHGGGSAPVSLV TGPVHGDSLLGPVAPEPPRVVE PARQVRAHAVVVAGPLRRGRG LGRHRLRARSG*GMPQSVRGA CGAQGHGPAGEDQRLPRERG PAGQVQQPGVVPGLQDPEGCL RVQDQ*PGLREQSPHRARDA*S ILSKFE*IFPTTCSGWNVPEQYS QCLPGEKHRDWPR*LHHLL*PA QLPPPVTSTGHPSAIEGLETPL RSPLTPGPPGKSIIPHPQSPDCD GTDCAAFPENIIRLSRKICKRG
5279	35647	A	5320	1124	1835	HSLHFPKFPSFLTLITLGLLM AVPPGLITTHQQRQAML*YKPL ARLLEPLISFPSWKSILKEITSQC SICYSTTPQRLFRPPFPPTHQTR GFAPPR/HWQIDITHMPQVRKL KYLLVLVDTGSKKATVVISSLL SDIIPRFGGLPTSIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDG/VGPKLLPG SPFQLHHTWDSP
5280	35648	A	5321	1	1758	
5281	35649	A	5322	1	1967	
5282	35650	A	5323	76	1908	

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5283	35651	A	5324	524	2144	QSDLSASQHGFLPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC LRAAAAAALIVLEALKITNYAQ LTLYSSHNFQNLFSSSHLLTHILF CSPGSFSCTHSLLSLPQLPIVPGP DFSPASHILDTPDPHDCISLIH LTFTPFPHISFFPAPHPDHA*FIN GSSTRPNRHTPAKAGYAIVQVT SPPLKTSHFLSIVEIYPQGNFNS VFHLLFYYSGGIIQAPLLSLHIKL RDLPPRTGKSALLNMPVRKLL KYLLVLVDGTGSKKATVVISSLL SDIIPRFGLPSTSIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDGEARSSFAQH HFNFITHGTVPDVFVPILQLLNE DFEDPCLGYLPSPEISICLEPTSW SKDRSCSSGEEGSAGQVTGDL HKAQTPELDQPASLNCPDL
5284	35652	A	5325	1	420	RTRGGEKE*EEKQRSRR*RIK*E EEEK*RRSRGAGDKG*NERRRR NRGEPVEKEEDRRRKRQWRR GEEKRRRGRNCGGGGGEEKE DGRRRRLPCFLLLPSLLVSLW LVSFLPCVFGFFGAPAVVFARF RGLRAFCRF
5285	35653	A	5326	2	467	
5286	35654	A	5327	269	777	
5287	35655	A	5328	2443	2627	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPRLG
5288	35656	A	5329	57	394	
5289	35657	A	5330	33	311	HNTLPKTKPWFQEPGDEEPQQE EPPTESRDPAPRLPRSP*SADPP WRSQRPQGLTRPPPEPLRPHGS PPAHLSLFCQRSCPGPQERPHPS TM
5290	35658	A	5331	226	406	
5291	35659	B	5332	51	90	
5292	35660	A	5333	1	348	PPSQRV*GWHEMRQGGGRQHAQ PVLSQQGLTAGHCHHQHCRRP LACDVRPVVYEKVS RDHGLVS GQHN/PAPESQGQSTSPRHTGR KQARAGGEKKVTSDPANTAQH NPNTGSRGRP
5293	35661	A	5334	109	380	

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5294	35662	A	5335	448	724	WPSRSALAAGGRTAPTPrSRAG PPAR*RAGRESARGTS*GIRPRS QPARRPCPPAPVGRGLPPGPAP PPRAAPREPPRCRAAAHTSRP AGS
5295	35663	B	5336	1	1554	
5296	35664	B	5337	99	366	
5297	35665	A	5338	1	714	
5298	35666	C	5339	391	689	
5299	35667	A	5340	2	614	
5300	35668	A	5341	2	461	
5301	35669	B	5342	45	1148	
5302	35670	A	5343	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPVSNPYTLTSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5303	35671	A	5344	1	1035	MGQVWALVRSTLELFTDDEE EGEYDEVTEEVTEQVYLPKA KVAQEEVHPYPSAPPHYFEE KEWPDPPDLSFLEDTGRKVVP VTEQHRLRLSVLFRQEFSLRD ERDDAVEQLRGVCIRAWEKITS GGEQYPSFSAVKQGPKELYADF IAWNLLRQESLKKVISDSAAQD IVLQLLAFGNVNLDCQAALRPI RGKAHLVDYIKACDGIGAKQD SERFAFTIPVVNNLQPAKHFFHY FTDGSSNGKASYSGSKGQNQQ PIWILSRHLKPYHEPDAKEEIPG G/CP RTPWLQPCRD*C*GGP*/P VTSNTR*TQPPTWGQIKLSQM VEENLRKAGQLVTMTVYWN
5304	35672	A	5345	1566	1767	KGGWSQRHSQGACYTCRKS GH WAKECPQPGIPPKRPICVGP H* KSDCSTHLAANPRAPGT LAQGS L
5305	35673	B	5346	1	3429	
5306	35674	A	5347	1	1776	
5307	35675	A	5348	1	933	

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5308	35676	A	5349	1	1743	MGKVVAVVRSTLELFHTDDEE EGEYNEVTEEITEQVYLPAAKAK AVKEREQRGNITATFEPFPKLL KEFKQAINQYGPGRSHFVMGLL KNVAVSSQMIPTDWDALTQAC LTPAQFLQFKTWWAHEASIQ ACNAQAQPQINITTGQLLGVG WAGLDAQVVMQDDAIEQLRG VCIRAWEKIPLCGEQYASFSAIK QGPKEPYVDFIAWLQESLKKVI ADSAAQDIVLQLSAFDNANPDC QAAL*PIRGNHLVDYIKACDG IRGNMHKATLLVQAMAGLRVD KGNPLLPACFCNGKHGHTKQ ERRKKSVSQAARWGKRKTADP EICPKCKGKYWANQCHSKFD KDGTLISGNAMRAEQDCEWFT FTIPAVNNLQPAKHFRFTDVS SNGKASYSKGGQARVQLFE NASVRATNSDLPQSSLWCRRT SVSVAVLVSATIPISRVQGPSQV LGQGEKQTNQNVVNPYTLSS QIPEEAKWFTALDLKDAFFCIPL HSDSQFLFAFEDLTDHTSQLTW TILPQGFDRDSPHLFGQALADL GHFSSPGTLVLQYVDDLLATS SEASCQATLDLFLAN
5309	35677	A	5350	1	1085	
5310	35678	A	5351	1	3105	
5311	35679	A	5352	1	5172	
5312	35680	A	5353	41	324	
5313	35681	A	5354	18	270	KLSQVCIDLL*IREGERDMYPG WAKFPSPYSLKGT*PIAQGVW SFGDFFYC/IPSTLPTPKSWRLFE SPFPESLTPVSLVWPC
5314	35682	A	5355	80	384	SNNRTEGAWGKCQLMSS/PLTE PQVTLTIDSQEIDFLDGTGA VLSCEQLSSRSVTI*GILGQPV TRYFSHLLSCNWETLLFSAFL VMPESPTLLGR
5315	35683	C	5356	99	317	
5316	35684	A	5357	388	476	KVCPRPCRTSM/LPIRII*KLPQV CLDLL*IEGEGDMYPG*AKFPS PYCLKGT*PGTIAGSWARGVSA AASPSYSSPSY

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5317	35685	A	5358	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVFTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
5318	35686	A	5359	1	909	
5319	35687	A	5360	153	436	CFCCCVEGNKPRNLQRTTKTPR LSVMSPSSCRGRGIWPNPGTC/R PSPSLI*SRSRQTWRITPCQQG NKTGQRMNLTN*QEQAEGG* *QTPLS
5320	35688	A	5361	1	1632	
5321	35689	C	5362	1	675	
5322	35690	A	5363	604	1047	SNNRTDNPTSVAYLSKETDVV AKGWPHCLWVVAVAILVLEA IKIIQGKDFTVWTS HDVNGILG AKGNSWLSDKRLRLRYQALLLE GPVLQIHTCVALNPAIFLPEDGE PIKHDYQQIVAQTYVT*EDLLE VPLANPDNLNLYTNGSSFV
5323	35691	A	5364	749	1002	QLKKGTSNLLVSKPSPVWIPTG TLTQIMGTGVANIC*PVF*KD*G ELGKMNYAMMSTITQGKEENP AFLKWLWEALRKYTPLSP
5324	35692	B	5365	114	2309	
5325	35693	A	5366	413	1157	
5326	35694	A	5367	105	478	YGHCCYDHRICCFPPATEQKVC PCAAQG*PL*LRGDDPEMSVYI *QLPLYSSDLLSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDKQLHSS FDFCFGRVFSNFE
5327	35695	A	5368	531	1087	RLQPPGAPVEDITRPVSAKPRD ADRNSTGCYLV*LQHQRQTES GRQLSGL*GPCNGVH/ASLYR TSAMFAERFGSYSRRSTTAGIPS LLRLKSTIRRSRDRSRKAQRKR CGQVMPQHRRSIRPLLQIPITPSL NRNLHRSRPHRSRNRWSRLNRR LKHHLRRSQNRSRSWKKKLHR RVKPMCLCNWVR

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5328	35696	A	5369	544	1381	VNPALQVLVVAITPPPSLPSPSCI RVLTRVSNIAIAAKPLCLAVCAV VEGGRIRALVAAWAGVGTG GPAGLIACGPVSPSVIRGQFRHA GISFFLYAIGGEMVPAVRRQNH TPA*HKRFAKAFQLAHPNAVN AEHFAGGDRHLFSLHNQGCVV KHHVRRDITFIGYRFTQFA
5329	35697	A	5370	81	863	AYGNPVEIAGGARQAGVNFTG VFRPRFSRRWRRISGETCKLWW RRWRSASINQTFASWSTLIF RAISNPIIRKPDAPGVMACPRKR CCFTIRLIWRGCAVVWKRSE GQLQDIERHKLNAMGAFAEAQ TCRRLVLLNYF/GRRASGAVRE LRYLPRSAETVRRFNRCSDCPF HHWSCSAVWDGLCGGSDSCC GVSRARLFASPVNLPITGEIPER GFHPFCGRTTENGKNHPRNLFI WRSNCSVLPVKVMSLCSSTPCP
5330	35698	B	5371	12	273	
5331	35699	A	5373	145	336	SEEEEEEEEEEEEEEEEEEEEE E*EEGESAIICAKVCISVFP NELNMAITPNTIPKLNHW
5332	35700	A	5374	294	657	VAPGDRHAFHGGGSGLSPELTL PQTQCCAQATVQGLEGTRSW QSGTSSLSPWSHTSLACPQKEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEAKTQ*KSG QKI*TDSPQKK
5333	35701	A	5375	2	588	SRPGITGSTISYGDPPGHGAGPPG ADLGPARSLKPERAAGAQLAA GEARQSGDPGLPGGPGHSLGTA PC*VDKGWGHPVSTVHHQRQP QPGGLRAPGTALLAGTQPSHPA AGPWEPQPQRGVRVLGGRD *VGGG*GQHNKALWGPR*PHT EQKPDRKLSRIPLRAAGGEKRG CGCDRAGCLVLGPPQLPAQGL
5334	35702	A	5376	1	445	SLSHRAGGGGGVGGGAVCLFS PPRTKRESAPESPSRVLGHSVP S*GAPSTRGSVSRIITSGG THER SNGLTCHRNQAGTGPSALRSGR P*CLSRANPPGSKRSAGPVHEE RT*PCRLSGSAGITQ*DGN*KAG PRVPEAPERGCATC

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5335	35703	A	5377	3	313	QNDEVAFRKLLKLIIEDVQKSY LTNFHGMNLTHDKMCSMVKK WQTVIEAHVDVKTNGYLLCL FCVGFTKKCNNQIWKTSLF*QQ SNMEDFFVLTGTGIIHSHLHEPFLV VTDYDQ
5336	35704	A	5378	45	764	TSFLTGGGKKGSKKKVVDPF KKD/WL*YVKHRAMFNIRNIGK DVGSPRTQGTKIAS\DKLG\RV FE\SLADLQNDEVAFRKFKLIT \EDVQGK\NCLTNFHGMMDLTP* QKCCSMVKKM/WQTM*SSPL MVKT\TDGLLASVCSCVGF TKK\RNQIRKTSYAQHQVQRIRK KMMEIMTREVQTNDLKEVVNK LIPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGS
5337	35705	A	5379	3	501	SSARFVSSSSSGGYGGGYGGVL TASDGLLAGNEKLTMQNLNDR LASYLKVRALAAKILSDMRS QYEVMAEQNRKDAAEWFTSRT EELNREVAGHTEQLQMSRSEV TDLRRTLQGLEIELQSQLSMKA ALEDTLAET/EGDVRADSERQN QEYQRLMDIKSRLEQE
5338	35706	A	5380	1	716	AQLKVFWYWPAGAGGLRR FKHY\YTPFKDCRDKILGATIKN SRIVLQIDNAGLAADDFTKFE TEQALRMSV*ADITGLRRVLDE LTLARTDLEMQIEGLKEELAYL KKNHEEEISTLRGQVGGQVSVE VDSAPGTDLAKILSDMRSQYEV MAEQNRKDAAEWFTSRTEELT REVAGHTEQLQMSRSEVTDLR RTLQGLEIELQSQLSRLWGFC PLEGVFWVEGWEGRDPYPRLF
5339	35707	A	5381	3	832	
5340	35708	B	5382	141	1067	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5341	35709	A	5383	3	1316	GVAPSVLRLAMTSYSYRQSSAT SSFGGLGGGSVRFGPGVAFRAP SIHGGSGGRGVS SVSSARFVSSSS SGAYGGGYGGVLTASDGLLAG NEKLTMQNLNDRLASYLDKVR ALEAANGELEV KIRDWYQKQG PGPSRDYSHYYTTIQELRDKIL GATIENSRIVLQIDNARLAADDF RTKFETE QALRMSVEADINGFR RVLE*S*TLAQEPNLEDARIEG LKEELAYLKKNHEEEISTLKGP KCEAQ\SV EVD\SA\PGTRSSPK ILSDMRS\QYEVMAEQ\NRKD\A EA\WFT\SR\TERIETREVAWPHR SSFQMSQAPRLDLAAATPQGS *DLSCQSQLEPLKAALGKTPLA ENRKA\RFGNPQLAPYPQALDS AVI*KPQLG/DIVAKLDSSTGRI QEYQ\RLMDIKFARLEQEIAHP NRSLA/LEGQEDHYN\LFASK
5342	35710	A	5384	23	279	GCLRGLSLERCGTLCIKSLHEISG PESRVQ\QPLSSREEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEERKK ECSKAQCKHFPLSEVL
5343	35711	A	5385	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEGGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKKKKK KKKKKKKKKKKKKKKKKKKK RKKKKKEEEEKVVEEDEFIWF LGNSLYFPSFSHFAWSQIPSRED EGERRLRVNSMIMDFTSNTNH
5344	35712	A	5386	3	259	
5345	35713	A	5387	53	387	LEEEKEEEEKEEEEKEEEEE KE/DEEGEEGEGGEGEGEGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEMIVLKIIIVAKQLF
5346	35714	B	5388	1	1446	
5347	35715	A	5389	3	122	
5348	35716	A	5390	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
5349	35717	B	5391	1	1269	
5350	35718	B	5392	44	244	

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5351	35719	A	5393	1	626	EEGEVEEEGEEEEEEEGEGEE EEEEEGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEQEEEEEEEEEEEE EE\EEAAAAAASRDSHTSLEL TYWPPCPALRDTLVSNCSLSSL CTSGDSFHW*ETTIPAMSSCSH QHSLHQLGIIPRQILMRMASLM RRIC\EDHPATAEQ**HV*GPPD
5352	35720	A	5394	2	506	
5353	35721	A	5395	1	480	
5354	35722	A	5396	1	492	
5355	35723	A	5397	1	870	
5356	35724	A	5398	111	407	
5357	35725	A	5399	1	651	
5358	35726	B	5400	1	2427	
5359	35727	A	5401	571	966	SPFTNSRLTIFISFSECGQIAEIYI LSQPFMVVRIMATEPPIINLQPGN FTLDIVSRDHTTAL*PGRQEQNS VSKKKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEKKKK
5360	35728	A	5402	1	1674	
5361	35729	A	5403	1	306	
5362	35730	A	5404	2	431	
5363	35731	A	5405	1	585	
5364	35732	A	5406	1	708	
5365	35733	A	5407	3	595	
5366	35734	A	5408	287	659	
5367	35735	A	5409	1	633	
5368	35736	A	5411	3	634	
5369	35737	A	5412	344	481	
5370	35738	A	5413	1	525	
5371	35739	A	5414	1	501	
5372	35740	A	5415	1	461	
5373	35741	A	5416	302	567	MLCCLEISSTRYPKSSLSSSKFH KSLGQGQNAASLFAKT*RESPL LQFPASSSPSETTSAWTLFISL SAFLTKAFNKSLGGSKLSH
5374	35742	A	5417	251	844	NLGRGSQTSILDFCAPAGLIPCG SCQGLGLPHSEATARA VYWPL SAMAGVAGTQGTKSLDSSLFA KT*QESPLLRFP TSSSSPSETTSA FILLFISLSEFLSKPFNKSLGGSK LSHIFVSSSEPSKLSQPLHMQ ARISFTSGHTDDSTVLFVLLK LPLPVPSQAFSLKPGSIVMLLSS WSDNFNIPSISDSDA
5375	35743	A	5418	1	1113	
5376	35744	A	5421	1	337	

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5377	35745	A	5422	2	680	
5378	35746	A	5423	144	373	
5379	35747	A	5424	1	597	
5380	35748	A	5425	3	3319	
5381	35749	A	5426	1	612	
5382	35750	C	5427	46	168	
5383	35751	A	5428	1	663	
5384	35752	A	5429	10	417	IAIMNDTVAIRTRKFMTNRLLERKQMVIDVLHPGKATVPKTEILEKLAQMYKTTDPVIFVFGFRTHCGGGKTTGFGMIYDSLDAEKNPKHRLARHGLYEKKKTS*KQRQERTNRMKKVRGTAKANVVAG*KPNE
5385	35753	A	5430	67	263	GKTTG\FGMIYDCLDYAKKNEPKHRRARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGA GKK
5386	35754	A	5431	2	537	TPGSTTTTKFPTASTSEDRSPIMND\TVTIPH*EKFMTQPTYFRGNQMV\NDVLSPPGKGDCPKHRKFGKKLAQNVPRPTD\VIFVFWIQNFIFGGGKTT\GF\GMIYGFPGIYAKEKMNPDRHLCCKDMGLVLRKEKGPSRKANGKGTARNRIGRKVPGGTGKGPVGCWAKRRNEVSS

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5387	35755	A	5432	1	2195	ARGLSMGH*FP/PHFQCALA*M PAPGRGPPPLPP/CPDAPPACA ATMERPEAGLRVAPRSPVQPGC TSVLPVAKRFNARILWLKRPQR QLWSLWRAQATVSLGGFHVM LSLQVHRINARVKEAWQLPPRF QMMYQKAWVLRQKPAAAVEP SQRNSPRAMLGGNVGLPPPRV STRALPSGAVGRGLPPSRPKND TATGSLHPELGKAADIQFHPVR AATGASPCKSIGTELPKALGAH VLLQCALDVGHGVEGELWSFK TRQPSDFSIFSPFPFYSTKPPLS SWPIPNEPLGTTPRRGRGGAEG LLTSQCSHILNGLCFTGGINSNE CENVSRKKKMSEEFANTMDS LVDMPFATVDIQDDCGIFFDVW KLRVNCQEILANRHPGRAMRK VVLTKTSWEGESLAVGKLPLK RLVSLDCQLRCLQCEGILIRQ HVVWLERTTGHWHPRSSQSCR LNTTSTALEHCNAFIYNTVCSH KLKDHSHDNGKSSGFLNPVAA PHSCIVMGHLTLLITTSYYTPLT KPDTPTLKKEGLISQDSSSLEV LLHTDPLGKRGTPDPRVDDDSL GKFPVTNSQARKRILEPDDFLD DLDEYCEDAPKHRGKGCOSA HKELDASNLEDQDKPYACDIC GKRYKNRPGLSYHYAHSHLAE EGEDKEDSQPTPVSRSEEQK SKKGPDPGFALPNNYCNFCLGNS
5388	35756	A	5433	1	580	FSPLIHLILSGHSTCFREHRVGG KVTQQDPKAEFFLVQNKMK SLPCLLLSTQTRQPSDFSIFSPF PPFYSTKPPLSSWPVLNELLGTP PRRGGGRAEG/PPHFPVG/GPGR GAPSPRRGGWPGGGLTPQPPS RTGRLAGRGADPPTSLPDGAA GRAGG*PHHLPGRGGWPGRG APHFPVGAGQRRLLFIC
5389	35757	A	5434	405	685	KVSHVYFYPHRPRNHPISQFFPH PSRLSIPQNRHCHHGPS/RNEPL GTPPR/PGSWPGRGAPHFPETFN HGRRWKGSRHVFTWPEQERE WGSATHF
5390	35758	A	5435	1	654	
5391	35759	A	5436	1	426	
5392	35760	A	5437	1	548	
5393	35761	A	5438	1	459	
5394	35762	A	5439	1	346	

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5395	35763	A	5440	1	1248	
5396	35764	A	5441	1	1257	
5397	35765	A	5442	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAIEVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAIEKAFDKI QQPFMLKTLNKLIGDGTIFYKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARI AKAILSQKNEAGGITLP
5398	35766	A	5443	1007	1719	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKHLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAVPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLP
5399	35767	B	5444	1	1020	

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5400	35768	A	5445	1	1576	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPPERQNHSL WKG*SQEPSGLAQWIPLPWS AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLKGYRNCQLE
5401	35769	A	5446	1	984	
5402	35770	A	5447	1	1563	
5403	35771	A	5448	1	1449	
5404	35772	B	5449	1	1605	
5405	35773	B	5450	1	1569	
5406	35774	A	5451	1	690	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYNPLLNEIKEDTNE WKNIPCSWVGRINIVKMAILPK ATVTKIAWYWYQNRDIDQWN RTERSEIMPHIYNYLIFKKPEKN KQWGKDSLFDKWCSENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIGI GKDFMSKTPKAMATKAKIDK WDLIKL\FCTAKETTIRVNRQS TKWEISSL
5407	35775	A	5452	1	1919	

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5408	35776	A	5453	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILP DIDQW/NRTEPSEIMPHYNYLI FDKPEKNKQWGKDSLFHKWC WENWLA VCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDK WDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIKKSGNNRCWR GCGEIGTL
5409	35777	B	5454	1	810	
5410	35778	B	5455	1	1277	
5411	35779	B	5456	130	1701	
5412	35780	A	5457	1	1395	
5413	35781	A	5458	3	1646	
5414	35782	A	5459	1	759	
5415	35783	A	5460	2821	5781	
5416	35784	B	5461	1	2025	
5417	35785	A	5462	1	3663	
5418	35786	B	5463	1	2265	
5419	35787	A	5464	1	2241	
5420	35788	A	5465	1	2478	
5421	35789	A	5466	1	2067	
5422	35790	A	5467	1	2988	
5423	35791	B	5468	1	2061	
5424	35792	A	5469	1	2141	
5425	35793	A	5470	1	400	
5426	35794	A	5471	2	2507	
5427	35795	A	5472	1	768	
5428	35796	A	5473	1	1527	
5429	35797	A	5474	1	1293	
5430	35798	A	5475	1	1038	
5431	35799	A	5476	1	1572	
5432	35800	A	5477	1	1290	

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5433	35801	A	5478	1	524	MSELPFRIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNISCSWVGRINIVKMAILPK/ VKHR/FSACLQSLGRSGTTGLE ALAM*PIWPQEVE*VKFPALPS GASSTKGGCVP*QIQVEERLLS WKL*QA*TSW\YQRQRSDSSL RERK*PKSIQRNVRLSYYP
5434	35802	A	5479	2	1547	
5435	35803	A	5480	1	2376	
5436	35804	A	5481	1	1824	
5437	35805	A	5482	1	1071	
5438	35806	B	5483	1	1839	
5439	35807	B	5484	1	1368	
5440	35808	A	5485	1	1884	
5441	35809	A	5486	1	1053	
5442	35810	B	5487	1	2532	
5443	35811	A	5488	1	2373	
5444	35812	A	5489	1	2361	
5445	35813	A	5490	1	2274	
5446	35814	A	5491	1	1686	MASPGPAPTASPKIHSELLTATR EAQRHHPVPRGQDLVTSEFSL SFCFSAAIFIFELLSNSEGVTDL RLWLCQPAPRCGEWTYNPLEQ CCDDGVILDNLQTRLCGSSCTF WPCFQHCCLESLSQSQNTVVR KVPGMKPDCKSSPITRICAQAG VQISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASQ RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA LIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEITPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LAICRKLKLDPFLTPYTKINSRW IKDLNVRPKTIKLEENLGITIQ DIGMSKDFMSKTPKAMATKDK IDKWDLIKLSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCSLSLAIREMQIKTTNQNHM RYHLTPGHG
5447	35815	A	5492	1	1872	

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5448	35816	A	5493	195	1494	PPGQHLQRRCLLRVSGFSENAK KGMLEVLARA\NRQEKKIKGIQS GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKALGYKISV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYGF NAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQDKAGGI TLPDFKLYYKATVTKTACNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTDTSLSIPAAPMVD SLIARVGVMARGNAITLPCGR DVKFTLEVLRGDSVEKTSRVW SGNERDQELLTEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLGGEL DDEQMAALSRLGNDY
5449	35817	A	5494	1	1845	
5450	35818	A	5495	1	2109	

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5451	35819	A	5496	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAIYLG VLSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARSLV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGDLSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANSLDFPPASLL CLICQEQGVNGESCSPVGMYYH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDAFAFDKIQQHF MLKTLKLGIDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPTTKINSRWIKDL NIRPKTIKTEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETIRVNRQPT
5452	35820	A	5497	3	2284	
5453	35821	A	5498	1	1245	
5454	35822	A	5499	1	1140	
5455	35823	A	5500	383	1185	
5456	35824	A	5501	1	3159	MLEVLAWAVRQEKEIKGIQLG KEEVKLSLFADNMTVYLENPIV SAQNLLKLISNFSKVSGYKVS GQKSQALLYTNNRQTESQIMSEL PFTIASKRIKYLGIHLTRDVKDL FKENYKPLLKEIKDTNKWKNI PCSWVGRINIVKMAILPKDIIQE NFPNLARQANIQIQEIRKTPQRY SSRRATPRHIIVRFTKVEMKEK MLRAAREKASHHTYSKIDPILG SKPLLSKCKRTEIITNYLSDHSAI KLEFRIKNL

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5457	35825	A	5502	583	2515	MQKKPLTKFNNPSC*KLSIN*LI SNFSEVSGYKISVQKSQAFLYT NNR/QESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWVGRINI VKMAILPKAIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVGPNTIKTLEENLGITIQDI GTGKDFMSKTPKAMATKAKID KRDILKLSFCTAKETTIRVNR QPTKWEKIFTTYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEHIYAACKHMKKCS PSLAIREMQIKTTMRYHLTPVR MAIHKSENNSLAAGGGNRRT ANVVAHGAFANLLTLDKKTLQEI LVHYPDSERILMKKARVLLKQ KAKTAEATPPRKDLALLFPPE ETPKLFTLLGGTGKASLARLL KLKREQAAQKKENSEGGEEEG KENEDKQKENEDKQKENEDKG KENEDKDKGREPEEKPLDRPEC TASPIAVEEEPHSVRRTVLP SRQSLIISMAPSAEGGEEVLTIE
5458	35826	A	5503	1	2463	
5459	35827	B	5504	1	1221	
5460	35828	A	5505	1	4494	
5461	35829	A	5506	1	2825	MARTSYGQHFFPTLISMNIDSG RQNNIGIPKLSTSYSLKPMNTLC YLVKRDLEGVLKLRILTWESSL DYPGGPSVITKVLIRQKEGQSQ RTRYDNGSRGWSDAIAVKRPQ AKECGWPLEAGKGKEWILRKE CIPANTLMLAQCPPTLRVGGSV CSAWRMIQNSDGERRKRNRQL QAVRLSKVIHDTFRNFPRFVHS RELSKGAEKSSSLKKGLEQVII WTKCRQCGESRCTKKVEERKV LHNTFISTSTTITTLG

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5462	35830	A	5508	1184	4791	TSMQKSSIKYWQTESSTSKSLSTMIKWASSLGCKAGSVYANQ*M*SSI*TEPKTKTI*LSQ*MQKKPL/YKIQQPFMLKTLNKLALNLKKLISNFSKVSGYKINVQKSQAFlyTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPQVIYRFNAIPIKLPMFTFFTELEKTTFKFIWNQKRIAKSILSQKNKAGGITLPDFKLYYKATVT
5463	35831	A	5509	516	2233	
5464	35832	B	5510	286	4131	
5465	35833	B	5511	1	4911	
5466	35834	A	5512	1080	3119	SSGLHPWDARLVQYTQINKCNPAYKQSQRQKPHDYLNRCRKKAFDKIQQPFMLQTLNKLIGDGTYFKIIRAIYDKPTANIILNGQKLEAFPLKTGTRQGCPSSLNLFNIVLEVLAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLKKLISNFSKVSGYKINVQKSQTFLYNNNRQTESQIMSELPFTIALKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPKVIYRFNAIPIKLPMFTFFTELEKTTLKFIWNQKRIAKSILSQKNKAGGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNYLIFDKPEKNKQWGKDSLFNKWCWENWLAICRKLKLPFLTRYTKINSRWIKDLNVRPKTIKTLEENLGITIQDIGVGKDFMSKTPKAMAAKAKIDKWDLIKLSFCTAKETTIRVNRQPTTWEKIFATYSSDKGLISRINYELQQIYKKKTNNPIKKWAKDMNRHFSKEDIYAAKKHMKK\CSSSLAIR\EMQIKTTMRYHLTPVRMAIHKSGNNRIRRHQPRSAMFFCCCPGGEGSGLQWELLAAAWTVLPYPCPAATVGRFLKQAQTADHSFLGHVWRVPSSRSWTDKEILSLVVNRQNQEVVQLIGGLCGTHTISPTQHPATG

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5467	35835	A	5513	2494	4549	LQTI LQGYSNSKQHGTGKT TA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPDKNKKWGKDS LFNKWCWENWL VICIKLKLDP FLTPYTKINSRWIKDLNVRPKTI KTIEENLGNTIQDIGMGKDFMS ETLKARATKAKIDKWDLIKLKS FCTAKETTIRVNRQPTKWEKIF AIYSSDKGLIPRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEDI YAAKHKMKCSSLAIEMQI KTAMRYHLTPVRMAI
5468	35836	A	5514	1	5582	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYQTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTQITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLLNDYWVYNEMKAEIKMFF ETNENEDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKQEQTHSKASRRQE ITKIRAEKIEITQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
5469	35837	A	5515	3371	5375	TDTSQKKTFMQPKKHKMKCSP SLAIEMQIKTTMRYHLTPVRM AIIKKSNNRSWYFEKINKIDRL LARLIKKKREKNQIDAINKDKG DITDPTEIQTTTREYYKHLA YANKLENLEEMDKFLDTYNLPRL KQEEVESLNRPIRGSEIVAIINSL PTKKSPGPDGFTAIFYHRYKEE LVPLLLKLFQSIEKEVILPNSFYE ASIIIPKPDRDTAKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVG

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5470	35838	A	5516	314	2695	GSACRDPDPDPLRLVGGGAAA PPCSSVSPSAWRQSRPREYYEG GRGLHAPDRETALGLGIATSER MLGICRGRRKFLAASLSLLCIPA ITWIYLFSGSFEDGKPVSLSPLE SQAHSPTYTASSQRERESLEVR MREVEEENRALRRQLSLAQGR APSHRRGNHSKTYSMEEGTGD SENLRAGIVAGNSSECGQQPVV EKC\RRNPLHFHLIADSIAEQILA TLFQTMVPAVRVDFYNADEL KSEVSWIPNKHYSGIYGLMKLV LTKTLPANLERVIVLDTDITFAT DIAELWAVFHKFKGQQVLGLV ENQSDWYLGNLWKNHRPWPA LGRGYNTGVILLLLDKLRKMK WEQMWRLTAERELMGMLSTS LADQDIFNAVIKQNPFLVYQLP CFWNVQLSDHTRSEQCYRDVS DLKVIHWNSPKKLRVKNKHVE FFRNLYLTFLEYDGNLLRREL GCPSEADVNSENLQKQLSELDE DDLCEYFRRERFTVHRTHLYFL HYEYEPAADSTDVTLVAQLSM DRLQMLEAICKHWEGPISLALY LSDAEAQQFLRYAQQSEVLMS RHNVGYHIVYKEGQFYVNNLL RNVAMKHISTPYMFLSDIDFLP MYGLYEYLRKSVIQLDLANTK KAMIVPAFETLRYRLSFPKSKA ELLSMLDMGTLFTFRYHVWTK GHAPTNFARKWRTATTPYRVIEW

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5471	35839	A	5517	3	2079	GKPVSLSPLESQAHSPTYTASS QRERESLEVLRMREVEEENRALR RQLSLAQGRAPSHRRGNHST YSMEEGTGDSLENLRAGIVAGNS SECGQQPVVEK\RRNPLHFHLI ADSI AEQILATLFQTMVPAVR VDFYNAD ELKSEVSWIPNKHYS GIYGLMKLVLT KTLPANL ERVI VLDTDITFATDIAELWAVFHKF KGQQVLGLVENQSDWYLGNL WKNHRPWPALGRGYNTGVILL LLDKLRKMKWEQMWR LTAER ELMGM LSTSLADQDIFNAVIKQ NPFLVYQLPCFWNVQLSDHTRS EQCYRDVSDLKVIHWNSPKKL RVKNKHVEFFRNLYLTFLEYD GNLLRRELFGCPSEADVNS ENL QKQLSELDEDDLCYEFRRERFT VHRTHLYFLHYEYEPAADSTD VTLVAQLSMDRLQMLEAICKH WEGPISLALYLSDAEAQQFLRY AQGSEVLMSRHN VGYHIVYKE GQFY PVNLLRN VAMKHISTPY MFLSDIDFLPMYGLYEYLRKSV IQDLANTKKAMIVPAFETLRY RLSFPKSKAELLSMLDMGT LFT FRYHVWTKGHAPT NF AKWRT ATTPYRVEWEADFE PYVVVRR DCPEYDRRFVGF GWNKVAHIM ELDVQEYEFIVLPNAYMIHMPH APSF DITKFRSNKQYRICL KTLK EEFQQDMSRRYGFAALKYLTA
5472	35840	A	5518	403	2757	
5473	35841	B	5519	128	353	
5474	35842	A	5520	2	333	
5475	35843	B	5521	25	1359	
5476	35844	B	5522	1	1113	
5477	35845	A	5523	1	2526	
5478	35846	A	5524	3	555	

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5479	35847	A	5525	1	1710	MSQGTTPWGPTPAGTTPSEVH RPFPPVPVPVPETSERSFVVRG VCGQAKSGLRRGAARLAPAA LFTRQQTRELIHSACVSISVNTM HGLSVAINSRRCTYYRKYVIDF SKSEIIGIPISKNDLTVGTTVTQ LQNLNTVGIIGSRGGRGQVAAL NCDRQGHLLWLFTRVTVHWRM GNDRTFWGLLDTVSELMFIPGN PKHHCGPPVKVGAYGVTFGLV HWCAGACQDTPCKMKDKLLHL APPTTKKKAQYVVGLLGFWRPI YRVTTQKAASFEGWPEQDKALP QVQAAVQPALLFGPYDSADPM VLEASVADRDVWVSLWQAP/IS HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5480	35848	A	5526	1	438	
5481	35849	A	5527	1	612	
5482	35850	A	5528	2	736	EKCAMTALSSKLISQQKAFFAK MVVDVMMMLDLDLLQLKMIGI KKVQGGAELEDSQLVAGVAFKK TFSYAGFEMQPKKYHNPKIAL NVELELKAEKDNAEIRVHTVED YQAIVDAEWNILYDKLEKIH SGAKVVLSKLPIGDVATQYFA DRDMFCAGRVPEEDLKRTMM ACGGSIQTSVNALSADVLGRQC VFEETQIGGERYNFFTGC PKAK TCTFILRGGAEQFMEETERSLH DAIMIVRRA
5483	35851	A	5529	3	474	
5484	35852	A	5530	374	968	
5485	35853	A	5531	1	568	
5486	35854	A	5532	1	2136	
5487	35855	A	5533	1	240	
5488	35856	A	5534	248	1034	
5489	35857	A	5535	1	1602	
5490	35858	A	5536	120	340	

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5491	35859	A	5537	2	408	DEDDDDDDDEDDDDDEDDDDDDF DDEEAEEKAPVKKSIRDTPA\K NAQKSNQNGRDSKP\STPRSK GQESFKKQEKTPKTPK\GPSSVE DIKAKMQASIEKGGSLPKVEAK FINYVKDCF\RM TDQEAI\QDLW QWRKSL
5492	35860	A	5538	194	1027	WSFISIHLLSYLSACHHLMEDS/ MDMGMRLRPLRPQNYLFSC ELKA NKDYHFKVDNNEHEHQLPLTTI NLGAGAMDELDIVEAEAMNYE GSPKIVILATLKMSVQPTVSLG G\FEITPPVVLRLKCGSGPVHIS GQHLVAVEEDAEESEDEEEDV KLLSISGKRSAPGGGSKVPQKK VKLAADEDDDDDDDEDDDDDED DDDDDFDDEEAEEKAPVKKSIR DTPAKNAQKSNQNGKDSKPSS TPRSKGQESFKKQKTPKTPKG PSSVEDIKAKMQASIEKAH
5493	35861	C	5539	212	367	
5494	35862	A	5540	14	1515	
5495	35863	A	5541	1	540	
5496	35864	A	5542	1	1881	MDAALDDLIDTLGGPEETEEEN TTYTGPEVSDPMSSTYIEELGK REVTIPPKYRELLAKPIGPDDAI DALSSDFTCGSP*LYPSQVFHLL DLLPFSPGYQPRLLQHHLA/AVP FKVAGSGGADCILHMEVRDTA SDTGAGAAALDSSVFSVGLDGF SLHSDRSKSSSSSMSSDSLRL GFSSSGSGNSGFPSLSVAGFNLYS DGIVSSSSPHFSSFSLSAFASSTS LIERRSSSGSACRVPSEADRASS
5497	35865	A	5543	1	930	
5498	35866	A	5544	1	183	
5499	35867	A	5545	1	555	
5500	35868	A	5546	162	499	FPGSGNMAKDAGLIEANGELK VFIDQNLSPGKGVVSLVAVHPS TVNPLGKQLLPKTFGQSNVNIA QQVVIGTPQRPAASNTL/VWVG SPHTPSTHFASQ\NQPSDSSPW\S AGKR
5501	35869	A	5547	2	451	LVAEFSAADNHILPNESAYDQK NIRRRVYDALNVLAMNIIISKE KKEIKWIGLPTNSAQECQNLEV ERQRRLERIKQKQSQLQELILQ QIAFKNLVQRNR\HAEQQASRP PPNSVIHLPFIIVNTSKKTVIDC SISNDKFEYLFNFDNT
5502	35870	A	5548	37	162	

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5503	35871	A	5549	205	616	RKLHGSQSSITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADAQVRRAVNNYDIIVMSNSF NGQSEHQVWIGGQFTFIKFIPIN SVSIRCRARQEGIMSSPGQQVG
5504	35872	B	5550	1	1407	
5505	35873	A	5551	3	416	MLPARMCCGIVSG*QFHTGNSY DHDYEFELGTRS*A*LKLLFS*T LPD*QLPAGSGEGPYHLEGQLS YCHRGGEKALAALLSSPTSKTR SPSEPDPQEDEQKLRFCKRHLY GQQRSPVEIRLQHVAIAYQTH HAYD
5506	35874	A	5552	1988	2137	LVITTLPLACGTAK*E*VNVTS FGSRPICSTSPVLFSGL*GPVKEF DT
5507	35875	B	5553	1	561	
5508	35876	A	5554	1	492	
5509	35877	A	5555	3	1055	
5510	35878	A	5556	1	634	
5511	35879	A	5557	1	723	
5512	35880	A	5558	1	384	
5513	35881	A	5559	1	792	
5514	35882	A	5560	3	1607	HCTRMSVKWTSVILLIQLSFCFS SGNCGKVLVWAAEYSHWMNI KTILDELIQRGHEVTVLASSASI LFDPNSSALKIEIYPTSLTKTEL ENFIMQQIKRWSDLPKDTFWLY FSQVQEIMSIFGDITRKFCCKDVV SNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYLSFSFG YTFEKHSGGFIFPPSYVPVVMSE LTDQMTFMERVKNMIYVLYFD FWFEIFDMKKWDQFYSEVLGR PTTLSETMGKADVWLIRNSWN FQFPHLLPNVDFVGGHLCKPA KLPKEMEDFVQSSGENGVVV FSLGSMVSNMTEERANVIASAL AQIPQKVLWRFDGD\KPDTLGL NTRLKYKWI PQN\DLLGHPKTRA FITHGGANGIYEAIYHGIPMVGI PLFADQPDNIAHMKARGAAVR VDFNTMSSTDLLNALKRVINDP SYKENVMKLSRIQHDQPVKPL DRAVFWIEFVMRHKGAKHLRV AAHDLTWFYHSLDVIGFLLV CVATVIFIVTKCCLFCFWKFAR KAKKGKND
5515	35883	A	5561	2	1600	

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5516	35884	A	5562	2	1624	AATGKQALHCIRMSMKWTSAL LLIQLSCYFSSGSCGKVLVWPT EFSHWMNIKTILDELVQRGHEV TVLASSASISFDPNSPSTLKFEV YPVSLTKTEFEDIKQLVKRWA ELPKDTFWSYFSQVQEIMWTFN DILRKFKCDIVSNKKLMKKLQE SRFDVVLADAVFPFGELLAELL KIPFVYRPRFSPGYAIEKHSGL LFPPSYVPVMSSELSQMTFIE RVKNMIYVLYFEFWQIFDMK KWDQFYSEVLGRPTTLSETMA KADIWLIRNYWDFQFPHLLPN VEFVGGLHCKPAKPLPKEMEE FVQSSGENGVVVSLSGSMVSNT SEERANVIASALAKIPQKVLWR FDGNKPDTLGLNTRLKWIPO NDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNI AHMKAKGAAVSLDFHTMSSTD LLNALKTVINDPLYKENAMKLS RIHHDQPVKPLDRAVFWIEFVM RHKGAKHLRVA AHDLTWFQY HSLDVTGFLACVATVFIITKC LFCVWK FVRTGKKGKRD
5517	35885	A	5563	1	225	
5518	35886	A	5564	1	3210	
5519	35887	A	5565	1	835	
5520	35888	A	5566	222	477	HPRCLSPKGILKYLTKKYLKKN NLRDWLRVVANSKESYELRYF QINQDEEEEEDED*ISFIWKILYE FLNKTWDPKKKKTKKKKK
5521	35889	A	5567	1	778	MAAAAAAGDSDSWDADAFS VEDPVRKVGGGGTAGGDRWG GEDEDEDVKNWDDDDDEKK EEAEVKPEVKISEKKKIAEKIKE KERQQKKRQEEIKRLEPEEP KVLTPEEQLADKLRKKLQEE DLELAKETFGVNNAVYGIDAM NPSSRDDFTEFGKLLKDINTQYE ESLYYARFLEVLVRDVCISLEID DLKKITNSLTVLCSEKQKQEKQ SKAKKKKKGVVPGGGLKATM KDDLADYGGYDGGYVQDYED
5522	35890	A	5568	1	897	
5523	35891	A	5569	1	2658	
5524	35892	A	5570	1	441	
5525	35893	A	5571	3	427	

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5526	35894	A	5572	1	952	PRLVLLKMAPLDDKYVEIARL CKYLPENDLKRLCDYVCDLLL EESNVQPVSTPVTVCGDHIGQF YDLCELFRTGGQVPDTNYIFMG DFVDRGYYSLETFTYLLALKAK WPDRTLLRGNHESRQITQVYG FYDDCLTKYG\NANAWRYCTK VFDMLTVAALIDEQILCVHGGL SPDIKTL\D\QIRTIERNQEIPHKG AF\CDLVWS\DPEDVD\T\WANS PRGAGWLFGAK\VTNEFGS*ST NLKLCRAHQLVHEGYKFMFD EKLVTVWSAPNYCYRCGNIASI MVFKDVNTREPKLFRAVPDSE RVIPPRTTTPYFL
5527	35895	A	5573	54	588	
5528	35896	A	5574	1	4287	
5529	35897	A	5575	1	507	
5530	35898	A	5576	1	1416	
5531	35899	A	5577	1	841	ILLWDVDGGLTQIDKYLVSSED YIKSGALLACGIVNSGVRNECD PALALLSDYVLHNSNTMRLGSI FGLGLAYAGSNREDVLTLLLPV MGDSKSSMEVAGVTALACGMI AVGSCNGDVTSTILQTIMEKSE TELKDTYARWLPLGLGLNHLG KGEAIEAILAALEVSEPFERSFA NTLVDCAYAGSGNVLKVQQL LHICSEHFD\SKEKEEDKDKKEK KDKDKKEAPADMGAHQGVAV LGIALIAMGEEIGAEMALRTFG HLLRYGEPTLRRVPLALAL
5532	35900	A	5578	2	391	AFGVTEPGCYGVIDVDTGKSTL FVPRLPASHATWMGKL/HSVLT SQKPSVLLTLRGVNTDSGSVCR EASFDGISKFEVNNTILHPEIVE CRVFKTDMEVLRYTNKISSE AHREVMKAVKVGMEKEYELER

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5533	35901	A	5579	18	1541	RRCRANMAAATGPSFWLGNET LKVPLALFALNRQRLCERLRKN PAVQAGSIVVLQGGREETQRYCT DTGVLFRQESFFHWAFGVTEPG CYGVLDVDTGKSTLFVPRLPAS HATWMGKIHSKEHFKEYAVD DVQYVDEIASVLTSQKPSVLLT LRGVNTDSGSVCREASFDGISK FEVNNTILHPEIVECRVFKT\DM EL\EVRLRYTNKISS\EAHREV\MK AVKSGEWKEYGVGKASFEHY\ CYSRG\GMRH\TSY\T\CILRAVG *GTSAVLTFTGH\AGAPNDRTIQ NGDMCLFDMGGEYYSVASDIT CSFPRNGKFTADQ\KAVYEAVL LSSRAVMGAMKPGDWWPDM\ HRLAYRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHF LGIDVHDVGGYPEGVERIDEPG LRSLRTARHLQPGMVLTVEPGI YFIDHLLDEALADPARASFLNR EVLQRFRGFGGVRIEEDVVVID SGIELLTCVPRTVEEIEACMAGC DKAFTPFSGPK
5534	35902	A	5580	1	98	
5535	35903	A	5581	1	810	

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5536	35904	A	5582	1	861	MLKEIIDDTNKWKHPCSWMG RISIVKMTILPKAIYKFNAVLIKI PPSFFTELEKTILKFLCNEKRAS RAKARLNKKNKSGGITLLDFKR YYSAIVTKTVWYWKNRHHQ RNRIENPEINPNTYSQLIFNKAN KNIKWGNDTLFSKWCWDNWL ATCRRMKLDPHLSPHTKINSRW IKDLILRPETTKILEDNIGKTLLD VGLGKDFMTKNPKANARKAKI NIWDLIKLSFFTAKGTVSRVN RQPTWEKIFIHTSDEGLLISRI YNELKQISKKK\TNNPIKKWAK DMNRQFSKEDVQMANKYMKK CSTSLIANLICREMQIKTTMQY HLTPARMAIIKKSKISRCWHGC GDQGTLLHCWWECKLVQPLW KTVWRFLKELKVELPFDPAIPL LGTHPEEKKSLCKKDTCTCMLL AAQFTIAKSWNQPKCPSVNEWI KKLCPRWLLSKWASA*NKWK HIPCSWMGRISIVKMTILPKAIY KFNAVLIKIPPSFFTELEKTILKF LCNEKRASRAKARLNKKNKSG GITLLDFKRYYSIAIVTKTVWY WYKNRHHQRNRIENPEINPNT YSQLIFNANKNIKWGNDTLFS KWCWDNWLATCRRMKLDPHL SPHTKINSRWIKDLILRPETTKIL EDNIGKTLLDVGLGKDFMTKN PKANARKAKINIWDLIKLSFF TAKGTVSRVNRQPTWEKIFIH
5537	35905	B	5583	473	1694	
5538	35906	A	5584	1	429	
5539	35907	A	5585	572	1149	PPVSHSMTLGNSYLFAPNWTIT PAW/CNTLDPSEFGWQASLSL PSHQQFEHTCPEWLPTYSWPCK VGPDYLSEICQPECKQHFQESL TESSKQNIYETCAIYVSSPGERIL NQRFGPHGAFILVREYDDIRFS HSGPPSTCPNFPGPSYYTARESA YALKLRALEIIQISQSTKMQRNL GNPILPAIHQQPPQ
5540	35908	A	5586	1	804	
5541	35909	B	5587	1	1995	

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5542	35910	A	5588	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRNL *NRVKAIM/VGKA EWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFESPEQE KALQQVQAVV QAALPLGPYDPADPVLLEMSV ADRDVWILWQAPISESQWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFS DLSSPKMCHPQQ
5543	35911	A	5589	1	1337	MIISIDAEKAFDKIQQPFMLKTL SKLEETASPSPVVATYTPQPMML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTSPFKSSIWPLQ KTDGSRMTVNYHKL NQVET PIAAVPDVVSLLEQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQQQYTFTFLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTLDLLPARVASWGVPYDQL T/GGRED*GLLHRWSCRICRHH
5544	35912	A	5590	2	693	KIVN/QKQYHIRGGIAEISATIKD SKDTGVVIPTTSPFNSPIWPVW KTDGSWTITVDYHKLDQVVTPI AAAVPDVVSLL EQINTSPGTWY AAINLENAFFSIPVHKANQ/KQF AFSWQQQYTI AVL PQ/VKFLG IHWFVACQDIPSKIKDKLLHLA PPTNKKEAQCLVGLFGFWRQHI PHLRVLLQPIYQVTLKAAIFEW GPEQE KALQQVQAAVQAALPL GPYDPTDPMVLE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5545	35913	A	5591	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEGKSSQWAEQAVALV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRTSAEEEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHICYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
5546	35914	A	5592	7	278	SASCTAAFHHQMEVVYTRSGS SRS*R\PTIPVIAQWDYDHNGHG GRDGGYPWAQQHELPLTKADL ATATAECPICQQQRPSLSPRCGT IPR
5547	35915	A	5593	1	237	
5548	35916	C	5594	63	116	
5549	35917	A	5595	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAALQPLSRTSLKGS GEGKSSQWAEQAVALVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
5550	35918	A	5596	1	354	
5551	35919	A	5597	3	592	
5552	35920	A	5598	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSADKDAVWI FHLSGSDRWRRTYRCL
5553	35921	A	5599	1	483	
5554	35922	A	5600	1	1908	
5555	35923	B	5601	141	1569	
5556	35924	B	5602	46	1533	
5557	35925	A	5603	61	448	WRFLGPWRIVSCWFCGWEERR EGSAFFVGIPARMSAARESHPH GVKRSASPDDDLGSSNWEAAY LGNEERKQKFLRLMGA/GKGEE DQKINEELESQYQHSMDSKLSG RYRRHCGLGFSEVEDHDGEGD

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5558	35926	A	5604	1	404	PWRIVSCWFCGWEERREGSAFF VGIPARMSAARESHPHGVKRS SPDDDLGSSNWEAADLGNEER KQKFLRLMGAGKKEHTGRLVI GDHKSTSHFRTG\EDHDGEGDV AGDDDDDDDDSPDP*SPDDSES DSESE
5559	35927	A	5605	2	434	LGPWRIVSCWFCGWEERREGS AFFVGIPARMSAARESHPHGVK RSASPDDDFFLFAIMNGK*KIV NSHRCSVKAKSRQQLGSSNWE AADLGNEERKQKFLRLMGAGK KEHTGRLVIGDHKSTSHFRTGE ED*KINEELESQYQH
5560	35928	C	5606	909	1096	
5561	35929	A	5607	1	309	PQPAAMAAYIWVLIRHGESAW NLETSGWYDATLSLAGHKE AKRGGQALRGLFQVPLAPEAV GTVWCSWRTPCALKQL*PRPL KRRLRILADRHATQPRPQQ
5562	35930	A	5608	93	914	SQSVPHQPQPAAMAAYK\VLG\ RHGESAWNLENRFSGWDDADL SPAGQRGGERFAAQALQDAGY EFDICFTSV\QKRAIRTLW\TVL\ DAFDQMWLASGEGLWGFNER HYWGS*PGLN*KQKLAAGIG*G PRLKI\WRRSY\D\VPMPMEPDH PFYSNISKDRRYADLTEDQLPS C\ESLKD TIARALPFWNEEIVPQI KEGKRVLIAAHGNSLRGIVKHL EGLSEEAIMELNLPTGIPVYEL DKNLKPIKPMQFLGDEETVRKA MEAVAAQ GKAKK
5563	35931	A	5609	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFSLEMP
5564	35932	A	5610	1	663	
5565	35933	A	5611	1	2034	

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5566	35934	A	5612	374	1106	IPVSEKQGSQWRFFSVYVFNKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQDTFK\LH\CYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YE\Y\SDFALKNP\F\YSLEMPIR CELFDQNLKLALEVAEKAGTF
5567	35935	A	5613	1	336	
5568	35936	B	5614	60	2175	
5569	35937	A	5615	2	198	
5570	35938	A	5616	1	449	
5571	35939	A	5617	1	771	
5572	35940	A	5618	18	736	EAMSSKVSRTDLYEAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGT/VQVGTVLIPPS PQCPRACSPAGSR*AGGGHVG TDVLG*FRPPAPGRRGWTDPHP GS*NMRGGVGRPRSPASLRS QAGCW*M*TLRVRLGWLLRSQ TLHRALGTPGLGVTCWCCPPK RRLKSTPRPKFSVCVLGDQQHC DEAKAVDIPHMDIEALKKLNK NKKLVKKLAKKYDAFLASESLI
5573	35941	A	5619	24	698	EAMSSKVSRTDLYDAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGTVRLKSTPRPKF SVCVLGDQQHCDEAKAVDIPH MDIEALKKLNKNKKTGSRSWP KKYDAFLA/SQSPLIQADSPKSL GP\SLNKGKSSPSLLTH\NKNM VAKVDEVKSTIKFPNWRCLCL AVAVGHVKMTDDELVYNIHLA VNFLVSLKKKNWQNVRLYIK SPMGKPQRLY
5574	35942	A	5620	1	843	

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5575	35943	A	5621	3	1215	LLIMADPRDKALQDYRKKLLE HKEIDGRLKELREQLKELTKQY EKSENDLKALQSV\GQ\VGVEVL KQL\EEKFIVKATNGPRYVVG C\RRQL*QKVSLKPGTR\VALD MTTLT\MEDILPR\EVDPLVYN MS\HEDPG\NVSYSYSEIGGLSE\QI RGI*GEVIGLPLYKPPSYFQVRG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRRFSEGTSADRE IQRMLMELLNQMDGFDTLHRV KMTMATNRPDTPALLRPGR LDRKIHIDLPNEQARLDIL\KIHA GPITKHG\EIDYEAIVKLSDBG\FN GADLRNVCT\EAGMFAIRADHD FVSTGKTSKAV\RKVADSKKL ESKLDYKPV
5576	35944	A	5622	104	173	
5577	35945	A	5623	1	1140	
5578	35946	A	5624	1	528	
5579	35947	A	5625	1	1083	
5580	35948	A	5626	1	471	
5581	35949	A	5627	1	2322	
5582	35950	A	5628	1	678	
5583	35951	B	5629	213	1477	
5584	35952	A	5630	2	339	FGLHKWGLGLEASSPCGPLTPS YLGFP RPHPGTLGLGRFWPFLA LQSLSETPSHARMPRVTVARTS PETLEISPLRAAT*NHRSSGHTC FRERMLRVSCRLSLDLSSSWVR
5585	35953	A	5631	1	783	

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5586	35954	A	5632	92	2746	ASRMTVLQEPVQAAIWQALNH YAYRDAVFLAERLYAEVHSEE ALFLLATCYRSGKAYKAYRL LKGHSCTTPQCKYLLAKCCVD LSKLAEGEQILSGGVFNKQKSH DDIVTEFGDSACFTLSLLGHGH VQTERAAKGTAFFSPKRLCLHTF P\WTPLEPLVEIGERPLPHQTFN\ FTS*\RNFANCLHTSGTKQVTN\ HVF\SHRQPETVLTETPQ\DTIEL NRLNLESSNSKYS\NTDSSVSYI DSAVISP\DTVPLGTG\TILSKP VQ\NPKPTGRSLLGGPAALSPL TPKFWGFLPIRKPP\SPG\DG\SY LQNYTNTPPVIDVPSTGAPSKK TFRVLQSVARIGQTGKSVFSQ SGNSREVTPILAQTQSSGPQTST TPQVLSPTITSPPNALPRRSSRLF TSDSSTTKENSKKLKMKFPPKIP NRKTKSKTNKGGITQPNINDSL EITKLDSSIIEGKISTITPQIQAF NLQKAAAEGMLMSLLREMGKG YLALCSYNCKEAINILSHLP\SHH YNTGWVLCQIGRAYFELSEYM QAERIFSEVRRNIENYRVEGMEIY STTLWHLQKDVALSVLSKDLT DMDKN\SPESGTQRGRES\PRMC GAD\SQIEKSQSSYFIQDLSRFDY VKFAVVTKIRAWCAAGNC\FSL QREHDIAIKFFQRAIQVDPNYA YAYTLLGHEFVLTEELDKALAC FRNAIRVNPRHYNAWYGLGMI
5587	35955	A	5633	260	678	GEFSIFFWVWN*LLLWHQETFS I*NLFSSH*TSITYQATEEGDFII QM\KLIHFGDSIFIY\KLLILNRK P**EAAISI*V*TWRSRFSHFQLR *HQTQVTNHSWFTEAR*LTDLV KSKSPTIPCSRFKANTLF**SDP
5588	35956	A	5634	1	1452	
5589	35957	A	5635	2	1563	
5590	35958	A	5636	1	444	
5591	35959	A	5637	2	345	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5592	35960	A	5638	2	1721	RSREAAAVAAAAATTAFGCRI WNPCAALTMKQSSNVPFLSK LWTLVEETHTNEFITWSQNGQS FLVLDEQRFAKEILPKYFKHNN MASFVRQLNMYGFRKVVHIDS GIVKQERDGPVEFQHPYFKQQQ DDLLENIKRKVSSSKPEENKIRQ EDLTKIISSAQKVQIKQETIESRL SELKSENESSLWKEVSELRAKHA QQQQVIRKIVQFIVTLVQNNQL VSLKRKRPLLLNTNGAQKKNL FQHIVKEPTDNHHHKVPHSRTE GLKPRERISDDHIIYDVTDDNAD EENIPVIPETNEDVISDPSNCSQY PDIVIVEDDNEDEYAPVIQSSEQ NEPARESLSSGSDGSSPLMSSA VQLNGSSSLTS\EDPV\TMDGFP FGMDNIQSFWGRVELLDY\LDL IDCSLEDFQAMLSGRQFSIDPDL LVDLFTSSVQMNPDTYINNTKS ENKGLETTK\NNVVQPVSEEGK ENLKSKP\DK\QLIQYTAFPLAF LDG\NPASSV*TGRGTTASFRKF CPL*DKPIEVDELDDSSLDPEPT QSKLVRLLEPLTEAEASEATLFY LCELAPAPLDSDMPLDLS
5593	35961	A	5639	2	251	
5594	35962	A	5640	70	297	QLRSPLKWKAQRQPLAIAHV LLLPRKRRQNGFFTTRYARLL STLPRSWRR\KQWY*AQNHVRS PEWKWHYQSL
5595	35963	A	5641	3	985	
5596	35964	A	5642	1	3501	
5597	35965	A	5643	1	1752	
5598	35966	C	5644	1	879	
5599	35967	A	5645	21	519	LHIPVRTLSCRFVVCWRSTPG PVCLGISSGGCRTVDIAALQLW LRGLALPEQLLRVDHPQACRR LPREPP\GPGQTFGTREPPQAVS TKEASSNLHAPERTVAGLTFT TEQVRALEGVFRHHQYLGPLE RNWLAREMQLS\RSR*KPGFKI AG*NTNGKCRTPS
5600	35968	A	5646	90	2401	
5601	35969	A	5647	776	1018	
5602	35970	B	5648	1	1296	
5603	35971	A	5649	1	1257	
5604	35972	A	5650	731	4841	
5605	35973	A	5651	325	9497	
5606	35974	A	5652	1	322	
5607	35975	A	5653	1	819	

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5608	35976	A	5654	56	251	
5609	35977	A	5655	149	701	
5610	35978	A	5656	3	415	
5611	35979	A	5657	3	467	AIASPRAAGIRHELTSTMAAGK NKRLTKGGKKGAKKKAV/DNII NIGKTLVTRTQRTKIASDGLKG RVFEESLADLQND\TDGYLLRVI *VAFTTERTNQI/REVFNKLIPDS IGKDIEKACQSIYPLHDDFARK VKMLKKPKFELRKLMEHGE
5612	35980	A	5658	2	418	PRVRADGKNFRLTKGGELGAR NKVVDPFSSKDWYDVKAPAM FNIRNIGKTLVSRTQGTKIASDG LKGRVFEARLADLQNDVAFIK CKLITDDVHGKNCLTIFHGMDL TRDKM\CSLGKKWQTMIEAHV DVKTDTGYLL
5613	35981	A	5659	3	121	
5614	35982	A	5660	1	237	
5615	35983	A	5661	25	967	FSPAAGIRHEGSLTSTMAVGKN KRLTKG\GKKGS\KKKVVDPFP R\KDWY*RRKHPLMFHYKN\IG KTLVTQDPKGP\IA\SDGLQGF VCLKVSLADLQ\NDEVASRKF\ RLITEVCFRGKNLP*LTSHGAW DLYPVTMCSHGQKNWQTM DSSR*MFKTNPMGYLALRLFLC /VGFT*KNRNQFRLRKAPPYAS ATQQVPPKSRKKMMEIMTPR GARQNDLEKKWVKNLIPRQAL GKDIRKGPAQSYFIPL\HDVLR EKLKLEGGSPKF*IGESSLGASM GGRAVVPKGSHLGTQTGAKVG TSLMGYEPPVPRILV

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5616	35984	A	5662	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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5617	35985	A	5663	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLELEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSL FNKWC WENWLAICRKLKLDPFLTPTYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIKKSGNNRHAPFSIH THIMFGSLYLQIQKDL SILGFW YPRGILEPIY
5618	35986	A	5664	1	1910	MTIINIINIIITITIIIVHIITINIVIT TTILTTVIISSTIIIIITIFVFETGAI KLEIRIKKLTQNRSATWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTCQNLWDTFKAINKID RPLARLIKKKREKNQIDAIKND KGDITDTTGIQTIREYYKHLY ANKLENREEMDKFFDTYTLPRL NQEEVESLNRPTGSKIEEINS SIKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGII LNSCCE ASIILIPKGRDTTKKENFRPISL MNIDAKILNKTLANRIQQHITK LIHHVQVGFIPGMQGWFNIRKS INNWKKTTLKLIWNQKRACITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEIIPHTYNYLSFDKPDKN KKWGNNSLFNKWCWENWLAI CRKLKLDPFLTLYTKINSRWIK DLNFGTETIKTLEENLGNTIHD GMGKDFMSKTPKAKATKAKID KWDLIKLSFCTAKETTIRVNR QPTWEKIFAIPSDKGLISRIY KELKQVYKKKTNNPIKKWAKD TNRHFSNEDIYAANRHMKKCS SSLAIREMQIKTTMRYHLAPVR MTIIKKS GSNRQ/W*ASGHVRC

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5619	35987	A	5665	1	2460	MPHAGHARSPGHITLIKLAEEWW MSRWMEWNPFGPLSIDAKCHK DLPRDIQFDSEKGVDFVLNYSK ALNQEEVESLNRPTGSEIEAIIN SLPTQKSSGPDGFTAIFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRYTHKKNNFRPI SLMNIDAKILNKILANRIQQHIK KLIHQDQVGIIPGMQSWFNIHK SINVIQHINRTKDKNHMHSIDAE KAFDKIQQPFMLKTLNKLGIK YLRIQLTRDVKDLFKENYKSL NEIKEDTNKWKNI PC SWIGRMN IHKMAI/LPKVIYRFNVIKLPMT FFSELEKSTLKFIWNQKRARIK TILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEMTPHIYNHLIFDKPDKN KQWGKDSL FNKWCWENWLAI GRQLKLDPFLTPTKINSRWIK DLNVRPKTIKLEENLGNTIQDI SMGKDFMSKTPKAMATKAKM DKWDLIKLSFCTAKETTIRVN RQPTWEKNFAIYSSDKGLISRI YKQLKQIYKKKTNNPIKKWAK DMNRHFSKEDVYAANRHMKK CSSSLAIREMQIKTIMIYHLTPV TMAIIKSGNNRCWRGCGEMG TLLYCWWDCCLVQPLWKTW QFLRDLELGIPFPAIPLGIYPK DYKSCCYKDTCTPKLARDQI HILKQHRRKELETRQKQYRAW
5620	35988	A	5666	689	1909	LIAYQPKKSRTRWIHNQILPERI KYLGIQLTRDVKDLKEKYKPL LNEIKEDINKWKNI PC SWIGRIN LVKMAIL/PQAICRKLKLDPFLT TYTKINSRWIKDLHVRPKTTKT LEENLGNTIQDIGMGKDFMSKT PKAMATEAKIDKWDLIKRSFC AAKETTTRVNRQPTDWEKMFA IYSSDKGLISRIYEELKQIYKKK TNNPINKWAKDMNRHFSKEDI YAANRHMKKCSSSLAIREMQIK TTVSPFAAQWVSQRYGKWQEA HPSNNDGKGYRGKPRFQSLSD VHGPDQKKIIESALPPTPTFI NILMNAKTIENGQFPYLLNALK QQQPHDAENLFTWGKENAAIV SPCIEVSAALSQWKVPAWPQRS GIPNRILRSPIGLGSWVAFLDL VWVRGDPTALK

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5621	35989	B	5667	1	1962	
5622	35990	B	5668	1	1851	
5623	35991	A	5669	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEKA FDKIQQLFMLKTLNKLIGDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAIKRLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCW\WINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
5624	35992	A	5670	2	1967	

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5625	35993	A	5671	1039	2272	KKRESSLTHVMRPASF*YQSQA ETQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLELEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSLFNKWC WENWLAICRKLKLDLPFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKKSGNN
5626	35994	A	5672	1	3477	
5627	35995	A	5673	1	2814	
5628	35996	A	5674	1	2093	
5629	35997	A	5675	1	2724	
5630	35998	A	5676	1	4680	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKDPPGD GFTAEFYQRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARITKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNAEPSEIML PIYNYLIFDKPDKNKQWGKDSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIK
5631	35999	B	5677	1	1989	
5632	36000	A	5678	1	2784	
5633	36001	B	5679	1	3573	
5634	36002	B	5680	1	2630	
5635	36003	A	5681	5339	10577	
5636	36004	A	5682	1	873	
5637	36005	A	5683	1	672	
5638	36006	A	5684	1	435	

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5639	36007	A	5685	1	1011	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGLQPGQR VLYKQSIAQRARTMALYNPIV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKE\DV RTHRK EAKNLEKRLDKM\VN RINSVEK TLNDPMELKTMARELCDACTS FSS*FNQVEEKVSVIEDQMDDEM K*EEKFREKRVKRNEQSLQEIW DYVKRPNLRL
5640	36008	A	5686	1	1539	
5641	36009	A	5687	1	756	MDDPRLNVKPLTESLETYSGKS KLEGDVITDSKLNDCRCPST KLPEEGLGSNICCSAIFAVLQPL LVIPRQTGSGVDHQQTPTDLRM TVRRKMKNKQKGIASSTSTKRTK KDIHTKTSPVCHQHQRPKDCSP SPATEQSWMENDLEELTEIGFR RSVITNFSELKEDVRIHHKKAK NLGKRLDEWLTRINSVEKTLND LMELKTMARELHDSCTSFNSRS NQAEKVSVIDQFNEIKREEK FREK\RVKRN
5642	36010	A	5688	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGLQPGQR VLYKQSIAQRARTMALYNPIV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDV RTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACTS FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
5643	36011	A	5689	1	672	
5644	36012	A	5690	1	807	
5645	36013	A	5691	1	1617	

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5646	36014	A	5692	1064	1893	LLEGSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSAASSPPKDC\SSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLKK RLDECLTRINSVEKKTLDLME LKTMAQELHDTCTSFNTQFDQ VEERVSVIDQINEIK*EEKFRE K\RVKINE*SCQEIWD*VKRPNI HLITVPESDGEKGTKLENTLQDI IQENFHNIARQANIQIEIQRTA QRYSSRTATPRHIIVRFAKVM KEKVLRAARKKG
5647	36015	A	5693	3	620	EAGWLLLSSVDEVMKENDEL DSISQLQKQILSLKSAKIALTESL ISFRERAEIVEKQTQALIM*VAD LQQGNDQTFQGLDGTSELTLI PGDPKHHCPPGPKVRAYGDQ VINGVLAQVQLIVGPVGPWTHP VVISPVPECVIGAILNSWQNPFI GSLTGRVRAIMVGISWQQQY TFTVLPQRYINFALCHKTAKR HTARR
5648	36016	A	5694	1	1098	
5649	36017	A	5695	2	563	IIRRAVFRWFWG*RSWGLNMIR PQNTKDSNSNCLEKTDSPWCEL FKELYKINAFDTPDSLLMRGNE FSDPIHHTFDHMMWRTKEHNEA GWLLLSSVDKVMKENDELGDS ISQLQKQILSLKSAKIALSESLS CRERAEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
5650	36018	A	5696	1	499	FVLVDVNNMWHRYASMLYER RLLIHCKSLSTLTACIHGFAAML YPMYWQHVVYIPVLPPLLDYC CAPMPYLIGIHLMEKVRNMA LDDVVILNVDNTLTETPFDDLQ SLPNDVISSLKNRLKKVSTTTG DGVARAFLKAQAFFGSYRNA LKIEPEEPITFCEEA
5651	36019	A	5697	1	795	
5652	36020	A	5698	103	3531	
5653	36021	A	5699	1	2073	
5654	36022	A	5700	1	901	
5655	36023	A	5701	148	639	
5656	36024	A	5702	1	318	REYGTPEQLNLALLTLNFLSL PKGQMLSAAEQHLQKPAAKTE A/GRMIWQRDPITKIWEIGKIIT WGRGYACVSPGQNHQSVWIPS RHLKSCHGPDAKEEIPGGS

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5657	36025	A	5703	1	612	PTRPIKHITDIPYNSEGQAIVER MNLSLKQQLQKHKKGGK/SKD YGTPHMQNLALLTLNFLSLPK GQILSVAEQHLQKPAAKTEAEQ LVWWRDPITKS*EIGKIITWGK GYACVSPGLTQQPIWIPSRHLK PYHEPDAEEEIPGGSRGPPPPV/ DSHVETDAEEEPHCHEQHLSNT ATHLGTDQEA VTAGGRKPEES KTTSHNK
5658	36026	A	5704	2	791	
5659	36027	A	5705	2301	2620	DGQQIALHRLALRELQQAGH AGLPQQA KILFDGGSEIGKIRGL QRPRAKNRLSGRGPLREPSPK*F FGVQGRKTLNRTLKGAPH*NL AAKAGKPLSPCTSGRIRM
5660	36028	A	5706	1	1010	MDDIPQEAGRYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ GSDLVLYGTSTPKNLIWVRVH VVGHRPDRRFFAFDVWSPRS LI VDSCSKLEQHSTLSRAILLIYKG FCFRNHHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGFPTGKRAVSATQLMD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQANVQQFIDEGNYTS GDNHTLRDPHYVEDKGHKYLV FEANTGTENGYQGEESLFNKA YYGGGTNFFRKESQKLQQSAK KRDAELANGALGIIELNNDYTL KKVMKPLITSNTVTDEIERANV FKMNGKWYLF TDSRGSKMTID GINSNDIYMLGYVSNSLTGPYK PLNKTGLVLQMGLDPNDVTFT YSHFAVPQAKGNNVVITSYMT RGSSR*RQRP*IPCIRSQHGNRK RIPR/SKNLYLT KRTTAAARTSS VKKARSFSRALKNAMLS*RTAP
5661	36029	B	5707	1	1149	
5662	36030	B	5708	55	3947	
5663	36031	B	5709	4	885	

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5664	36032	A	5710	461	1560	SLQTRDLPISPPSNRIFACWGK PAWTACCNSLRARR*RAISCCP SH*KRIPRRRIFI*PKRTTAAART SSVKKARSFSRALKNAMLS*RT APSVS*S*IMITH*KK**SR*SLQ TRDLPISPPSNRIFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGIPDWKAGSERNAI NGAIALIEGFRPLTLEPSSLIVNS CSKLEQHSTLSRAILLIYKGFCR FRNHHQ'IGFSPAGPNQRGPLAA TLSGPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAA GTTGFPTGKRAVSATQLM
5665	36033	B	5711	1	1458	
5666	36034	B	5712	1	3573	
5667	36035	A	5713	606	1005	GGMLCGTSLGPDGEGQSAVAR LTGEKKHPRGDQ*QKAPLLAR W/RNPLMLAQ/PDFPTGKRAI DTHRSVSHAHIIITHSSTLSSDIS HTDAPNTSSNNYVIAITSPSDTA PTSRTPLHRIHHTTPIPIATLARP
5668	36036	B	5714	1	1566	
5669	36037	C	5715	29	2314	
5670	36038	A	5716	597	1384	ISYTVPEALSARSNPAACQHAS CRPAACPVASVGSPRQPAPGGA GGHRHWPRRRWRLRQRPRPSA PGRPRRPRPRRRHRRRPRPH HHAPPPRPSCAETRSRRGGRR PLPRPLPPGAAGAGHREVGDK AGAAGCGRRVVALAA/PVSPPS SPSSPSPSLLSAAVGVAGCFSAE LSDSRLLAPGGEGPLARSPAR CDPAAGSACPAGWSSRQSRSC ELMCAAGISCWHTGHCTWCSL SFMPLVLMILAASFRPVAVSSH
5671	36039	B	5717	1	3873	
5672	36040	C	5718	356	784	
5673	36041	A	5719	1303	1664	KRRDEIIPCVLKQLLVTFITCR ASCINESANARGEAVCVLGAR VV/SSFHQ*DGQQLIALHRLALR ELQQAVHAGLPQQA KILFDGGS EIGKIPYKSKE*PENRLSVVPVW EQUESTLASV

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5674	36042	A	5720	453	915	TVSRWAMLEHILLFSREPSNKE PET*AHSM*ADDKRFAAYKKK TKGGTERWDKYGRRPANGIRT GENNAKTEHLRDRDQKR/PRER ERAR*TTEITEQEGSG*GEPVEQ MRKRRAQAWSRRKSTGSQTET RSVRVTRVGLKTASESRRIRTM EQN
5675	36043	B	5721	319	1469	
5676	36044	B	5722	164	3112	
5677	36045	A	5723	1	1102	MRWTPGHEITKALQTFQRYTGI QHVHRIGMAERMWCDNRNER HTVSSSGGNRLPNPEHFEAFQS VAQCTYNQTVQLDITAFKTV KKNKHKFYPAFIHILARLMNAH PEFRMAMKDVDSCKLEQHST LSRAILLIYKGFCFRNHHQTGF SPAGANQRGPLAATLSGPGGEG QSAVARLTGEKKNHPGAQYAN RLSPRVGRFINAAGTTGFPTGK RAVSATQLIYRELFQPLVQLD PCSVPCMOPPTSPKSRAWVSDI ALLEFQKKKEMEKKKEKERKK ELQGGRRRRGGGWGKGRER GGRGKKRRGGGEAIRDAEKAG RLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGLRLRAEDVFPP VIGVAAHKGGVYKTSVSVHLA QDLALKGLRVLLVEGNDPQGT ASMYHGWVPDLHIHAEDTLLP FYLGEKDDVTYAIPKTCWPGL DIIPSCALHRIETELMGKFDEG KLPTDPLMLRLAIETVAHDYD VIVIDSAPNLGIGTINVHPAWS AISLLEYSFGHLAGFVASIPAPL QLVPRWDTKPVLEDASASSRFS IPQRNPTLHPTTSFPSCNPDTV DAWMRFLITWCLYTSPYSTLM GELFPFYQGMLLESTKQGSQVR KVFVWTLVPNWNNTQPYSRAI LLIYKGFCFRNHHQTGFSPAG ANQRGPLAATLSGPGGEGQSA
5678	36046	B	5724	90	6258	
5679	36047	A	5725	837	1485	
5680	36048	A	5726	1	2993	
5681	36049	A	5727	1	123	
5682	36050	A	5728	1	960	
5683	36051	A	5729	507	755	NKRGYKQMEEHSMLMGRKNQ YRKNGHTAQGNL*IQCHPHQA TNDFLHRIGKNDQVHMEPKK SPHRQVNPKEQSWRHAT

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5684	36052	A	5730	274	882	PDQVDRGGAHWQTDADDPWL ADHLQHCQRCGEILRHYSGGIR GNVSAVKCAEHHVPAFARLRN PQCGDFQRLDYRLFDSPGVKRR EL*TAYRFCHVAP*LMDLRSG WAAGAVYRYQSH*FTADRLRS\ VDMDEAGNHHSQQT\SQDQKI KQRTFSLISGS*TTRTHGHREGN ITHRGLSRPNTARILCASKAHLG LPLRSSLP
5685	36053	A	5731	114	329	
5686	36054	C	5732	1	1983	
5687	36055	C	5733	1	588	
5688	36056	A	5734	1	597	
5689	36057	A	5735	1	721	MTSYNEQNKKPVTDPNEMAIH EDSNQEFKIAVVNETQSRSSP TEHLMTPPPLPTREQQPPLTVIF HYLPKSYKTAPPLSPFPDSLFG SQPAPRDMDEAGNHHSQQT\K QEQT\KHCMSLTSGS*TMRTH GHREGTVIHRGLLGQFSQQLIN KSEFSNTVCREKSGRVLQVNM ESPL*MIQDALQDQTTKGPITV FL*LFYLDHLLRSSHKVASYLST ESRSRGSITVLFIRCSEP
5690	36058	A	5736	417	696	DRNRKANTACFQHSQVGVEQ* EHMDTGKV*SI*YGNYEHTSTC ERMEIQKATTEHLNL*S*SGSFL RFTWKMLQFSKISR SFYQVLKH QQKIM
5691	36059	A	5737	325	1489	RSPTLLMHVHYIKVISWRELLI WLRAANASINPGVEQSPSGDPK TVTGFPLRLAADWVEEASVP KGVHIALSSQEQRAGDPRDLEA PSNLVISERTHRFRVSWTPPSD SVDRYKVEYYPVSGGKRQEVV RTPGVPLRLPAIIPQAAWLLA HLPAPSAPPTLPTKHTEAQSQ RCWSLLLCVTEVAAPSQVVK EAPPSFHTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDSRGSKM TIDENKIPRNPTYKGREGPLQGE LQTTAQGNKRGYKQMEEHSM LMDRKNQYRENGLTAQA\QPP PSGI*GYTAPCFPWENLI
5692	36060	B	5738	1	873	

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5693	36061	A	5739	274	716	QACYIYTTEYYAAIKNDEF/TVL CRDMDEAGNHHSQQTVTRTKN QTPHVLTHRWEINNENTWTQE GEHHTPGPVMLDSAPPTLGHQT PGSSAFGLWDLHQRLRLRPQT KGSTVGFPGEAFKLGLGHYW LSFFPSLQTAYRGTLPFNH
5694	36062	B	5740	134	2283	
5695	36063	A	5741	3	872	
5696	36064	A	5742	1	480	SKLNSGDGCWSGARRGSAHSR SPLPSLRPRAKMATEGLHENE TLASLKSEAESLKGGLEERAK LHDVELHQVAERV/VGPGAVC HEDQKDPQRPREQSPVHGLVQ R*EEDRELVTGWEGDRVGFLH HKQGARGHHALHVGDMCLC PIGMCHCLWWFG
5697	36065	A	5743	3	387	AKMATEGLHENETLASLKSEA ESLKGGLEERAKLHDVELHQ VAERV/VGPGAVCHEDQKDPQ RPREQSPVHGLVQR*EEDREL VTGWEGDRVGFLHHKQDPDSER RWHMCPVGRGERAAAAELPRT
5698	36066	A	5744	1	1575	
5699	36067	A	5745	20	510	
5700	36068	A	5746	1	1392	
5701	36069	A	5747	1	1560	
5702	36070	A	5748	3	325	
5703	36071	C	5749	206	409	
5704	36072	A	5750	1	855	
5705	36073	C	5751	233	571	
5706	36074	A	5752	1	3600	
5707	36075	A	5753	1	4137	
5708	36076	A	5754	3	1357	
5709	36077	A	5755	3	194	
5710	36078	A	5756	3	269	
5711	36079	A	5757	1	1770	
5712	36080	A	5758	164	411	RKNRKPNTAFLTHKWELNNEN TWTQGGNITHQG/CWGVQG*R RDSIRRNT*CKCRVPGCSKPPW HVYTYVTNLHLHMYPR

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5713	36081	A	5759	1	3095	MKMADAKQKRNEQLKRWIGS ETDLEPPVVKRQKTKVKFDDG AVFLAACSSGDTDEVLLKLLHR GADINYANVDGLTALHQACID DNVDMVKFLVENGANINQPDN EGWIPLHAAASCGYLDIAEFLIG QGAHVGAVNSEGDTPLDIAEEE AMEELLQNEVNRQGV DIEAAR KEEERIMLRDARQWLNSGHIN DVRHAKSGGTALHVAAAKGY TEVLKLLIQAGYDVNIKDYDG WTPLHAAAHWGKEEACRILVD
5714	36082	A	5760	1	591	FTVTRCYAVAQEGTYFDGSGY AALVKEGYKVQSDVNITLEVS N\PRRNGVFLGISTAIVHAIGLEL VDGKVL FHVNNAGRITAAYE PKTATVLC DGKWH TLQANKSK HRITLIVDGN AVGAESPHTQSTS VD TNNPIYVGGYPAGVKQKCL RSQTSFRGCLRKLALIKSPQVQS FDFSRAFELHGVFLHSCPGTES
5715	36083	A	5761	340	739	
5716	36084	A	5762	1234	1897	
5717	36085	A	5763	1	4070	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSQQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
5718	36086	A	5764	1	972	

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5719	36087	A	5765	1	2193	MVPYSLLVTWLQKALGVRQY HVASVLCQRAKVAMRPFEPKY IHVDLLEKNINIVCK*LNRPLTL SEKIVYRHPDDPTSQEIERGGTY LQQWPDSVTMQD/ATAQMAM LQFISSRL/SKVTMPSTIHCDHLI EAQLGSEKDLHQAKDINHEVY NFLATGSVKYGLSFWKPGSGII HQIILENYEYPGVLLIGTDSHTP NGGSLGGICIGVGGA/DAVDVM TGIPWELKCPKVIGVKLMGSL GWTSPKDVILKVAGILTMKGG TGAIVEYHGPVDSISCTGMVT VCNMGLEIGTTTSVFHYNLRM KKYMSKTCQADIANLADEFKD HLVPDPGCHYDQLIEVNPSELK LHINGPFTPDLAHPVAEVGKVA EKEEWPLDI*VGLWGSCNTSSY EDMGCSAGVAKQALAHGLKC KSQFTITPCSEQIRASIEQDGYA QTLRDVGGIVLANACGPCIGQL HRKDINKQEKNIIVTSYNRNFEM GHNDTNPETHAFITSPETVTAL AIVGTLKFNPETNYLTGKDGGK FKLEAPDADELPQAEFGPGQDT YQHP/PWGTTDHISAAGP*LKFR GHLDTISNNLLSGAINIENGKAN SVHDAVTHEFGFPDRTARYKK YGISWVIGD*NYGKGSSWEH AALEPRHL\GGRAITKSFARIHE TNLRRQGLLPLTFADPADNKIH LVDKLTIQSLKDLT/PGKPLKYI
5720	36088	B	5766	3	1205	
5721	36089	A	5767	435	1428	
5722	36090	A	5768	1	615	
5723	36091	A	5769	79	381	DKPQPHLQHTRTSKRLNRSSQA FLQNLLPQELATSAGNLAIRPR NACSLGFLVSRVPSLAATPRAP WNSGPRLSD*LLPRSSRLSS*RL TLPDRLGSPVDH
5724	36092	A	5770	38	452	
5725	36093	A	5771	435	524	
5726	36094	A	5772	284	411	
5727	36095	A	5773	1	354	
5728	36096	B	5774	1	942	
5729	36097	A	5775	1	417	
5730	36098	A	5776	88	279	EDLGRSQSESLGPEFQG*VVAIE TIWPTEPKIFTICLSGSHSQSPW NSGPRLSD*LLPRSSQLSS*RLT LPNRLRSLQDHHRCR

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5731	36099	A	5777	206	816	FIDSMSPSR YQ*LSSQNWKKL L*ISYGTKNEPA*PKQS*AQR TK LEASH*LTSNCTTSLH*SKQHGT GTKTEKKT*AIPFRT*AWAKTS* LKHQKQWQKPK*TKKIKYLG IQLTTDVKDLFKENYKPLLNEI KEDTNKWKNI PCSWIGGINIMK MAILPKVIYRFNALPIKIPMTFF TELEKTTLNFIWNQKRARI AKTI LSTKNKAGGITLADFKLYYKPT LVKTAWYWYQNREENLGNTIQ DIGMGKNFMTKTPKAMATKA KIDKRDLIKPSFCIAKETTIRM NRQPTEWEKLF AIYPSDKALIS GIYKDLKQIYKKKNNPIKKWA KEMNRHFSKEDIYAANRHVKN AHHHWSSEKCKSKPQ
5732	36100	A	5778	502	600	
5733	36101	A	5779	51	452	ADKQLQQSLRIQNQCKITSILI HQQQTNRPNHE*TPIHNCFKE NKIPRNPTYKGCEGPLQGELQT TAQGNKKGYKQMEEHSMLMG RKNQYRENGHTAQELEKTKVH MEPKKSPHRQVNP KPKEQSWR HHTT
5734	36102	A	5780	381	528	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5735	36103	A	5781	1	477	
5736	36104	A	5782	180	496	TPIHNCYKENKIPGNPTYKGCE GPLQGELQTTAQ*NKRGQKQM EEHSMLMDRKNKYHEN/EPYSP R*FIDSMSPSNYQ*LSSQNWK KLL*GPYGTKKEPT*PRQS
5737	36105	A	5783	1	533	MGPEICTSDKLSDEADVTVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEEHSIKWKNI PSSWVG RISIMKTAILPKVYIRIKDDEWN IYRRYTEFRSLHHLQNKYPQV RAYNFPPKKAIGNKEAVLCHG R*HDCISRKPHRLSPKSP*ADKQ LQQSLRIQNQCAKITSILIYQ*QT NREPHE*TPIHNCFKENKIPRN PTYKGCEGPLQGELQTTAQGN KRGTFHQMEEHSILMGRKNQY HENGHTAQLHPDKRR

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5738	36106	A	5784	599	870	TPANQQHYRRMTLQLKENQTN RKRQQKQHQQKRPHKNPIQRS ATSKIKGDGSIQP*MLPWGQSP QKALTATAPEQRKDTPPVRGL SLQD
5739	36107	C	5785	1	1170	
5740	36108	A	5786	317	960	KWPYCPRQFIDSMPSYQRL SSQNWKLL*SSYGTKKEPTSP SQS*AKRTKLEASRYLTSNYTT RLQ*PKQHGTTGKTEI*INGTQQ SPQK*/QPHVYNYLIFNKPEKKK QWGKDSL FNK WDMDEVGNHH SQQTITRTGNQTPHFVTHRWE NNEITWTQGAGHHTPGPVVGL GAGRGIALREIPNANDELMVQQ TNMAHIYLCIKPARCADVP
5741	36109	A	5787	903	1050	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5742	36110	A	5788	281	491	SFGYIPSNMGAGSNGISSRSLR NRHTDFHNG*TSLQSHQQCKSV PISPHPLQHLLFPDFLMIAITGV R
5743	36111	A	5789	1	381	
5744	36112	A	5790	1	3231	
5745	36113	A	5791	1312	1463	KGSATCSPPQANATTTTALQML GGIPWGNACGIFTRPPPQTYLN THLSTR*RPLLLLKCVR*KGSA TCSPQANATTTTALQMLGGIP WGNACGIFTRPPPQTYLNTHLS TR
5746	36114	A	5792	811	1065	IS*VSFMSITH**WKKKEQQLLG CWLA*M*SMLICV*RERI*THKL E*LILCI*RMKKILEIQGMFKL LPY*TKRIMLK/TLNRQLNSTVS SLHSRVDSLEKSNTKLIEELAIA KNNIILQEENHQLRSENKLIL MKTQQHLEVTKVDVETELQTY KHSRQGLDEMYNEARRQLRDE SQLRQDVENELAVQVSMKHEI ELAMKLLLEKDIHEKQDTLIGLR QQLEEVKAINIEMYQKLQGS GLKEKKEIIVRLYWSALCG
5747	36115	A	5793	1	1353	
5748	36116	A	5794	78	503	TKELLHSCRNYHQSEQATYRM GENFCNLLI*QRANIQLQ*TQT NLQEKNKQPHQKVGEQYQQT LKRRHLCSQKTHEKMLIITGHQ GNTNQNHNHNEIPSHTS*NGDH*K VRKKQGHG*SWKPSFSANYRK DKKPNTSCSHSQ

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5749	36117	A	5795	2	200	YGLMIRTIPVDPTIRTTSVSLTV RLATMNP RSRPAPVDVAPGPP HLHKNQKSSQHSQYLDLTSYC
5750	36118	A	5796	76	195	
5751	36119	A	5797	1	2445	
5752	36120	A	5798	207	475	TNLQEK NKQPHQKVGKGYEQT LLKRKHSCSQQTYEKMLIITGH QRNANQNHNDIPSHSS*NNDH* KDRKQQMLERM*RNRNAFTLL VGV
5753	36121	B	5799	1	681	
5754	36122	A	5800	1	798	
5755	36123	C	5801	78	245	
5756	36124	A	5802	16	491	EPYPDRPREPKRDPEWSWGLW DKGGLVLSLGRTRTEAHTALS RLRASMWIDRSTRAVS VHF TLY NPPTQLFTSVSLRVEILPTGSLV PSSLVESFSIFRSDSALQYHML PQLVFLALSLIHL CVQLYRMMMD KGVLSYWRKPRNWLEVASLVS FSFEK
5757	36125	A	5803	3	2791	
5758	36126	A	5804	219	392	
5759	36127	A	5805	1	1044	
5760	36128	A	5806	1	360	
5761	36129	A	5807	1	528	
5762	36130	A	5808	127	360	
5763	36131	A	5809	1	421	GRRSRLAMRPLSMSYSFDLSDV TTPESTKNLVESSMVNGGLTSQ TKENGLSTSQQVPAQRKKLLR APTLAELDSSSEEEETLHKSTSS SSVSPSFP\EEPVL\EA VFTRKKP PKFLPISSTPQPERRQPPQRHSI EKETP
5764	36132	A	5810	328	1086	
5765	36133	A	5811	1	2076	
5766	36134	A	5812	1	450	
5767	36135	A	5813	901	1506	
5768	36136	C	5814	17	106	
5769	36137	A	5815	24	330	ARDQPI/PKKGTVGEFEPADNK CLLRATDGKKKISTVVSSKEVN KFQMAYSNLLRANMDGLKKR DKKNKTKKTKTSSSSSSSSSPA AATAATTAATTAATAAQ
5770	36138	A	5816	1	2247	
5771	36139	A	5817	1	339	
5772	36140	A	5818	3	463	
5773	36141	A	5819	3	83	
5774	36142	A	5820	1	642	
5775	36143	A	5821	2	583	
5776	36144	A	5822	193	409	

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5777	36145	A	5823	3	425	
5778	36146	A	5824	1	450	
5779	36147	B	5825	82	2096	
5780	36148	B	5826	1	1554	
5781	36149	A	5827	129	522	LCTDNIEITSKVHLHCSHHGAG LGTCSPCLCLSLPPPWAPVQPEP PR*APPPAPQRPVPSTIQGRKRL QLHS*SQ*DH/DAHAKVCSFTPE PARPRTHQKEETPNTSEHQKKQ TPDTPPLRTVTLTARLHGF
5782	36150	A	5828	1	541	
5783	36151	A	5829	1	714	
5784	36152	A	5830	188	287	KELPSGGHYNCRAPSSPHAGS S*SGHQPNSSQ
5785	36153	A	5831	71	689	SPVLDDCPQGGLPSEESW/EQPV TRQYPLRPEVHKGLQNVKHLK APGLVRKCSSH CNTPI LGVQKP NGQWRLVQDLRLINEAVVPLY PVVPNPYTLLSQTPEEA EWF MV LDLKDAFFCIPLHSDSQFLFAFE DPTDHTSQITWMVLPQGFRDSP YLFGQALAQDLGHFSSRGTLVL QYADDLLFATSSEASCQQTLD LLNFLANQ
5786	36154	B	5832	45	1148	
5787	36155	C	5833	233	319	
5788	36156	C	5834	11	133	
5789	36157	A	5835	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPVSNPYTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQTWTWVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5790	36158	A	5836	1	449	MNKELGISSYKFCGMGRKTSVS AAKSVSATIPISRVQGLLQVLG QEVFLLLCQDQEEQAKREKRD QRKATALAMALRQTNLGGSER IENGAGQSPSRACYQCGLQG HF KKDYPTR/EPAAPCPLC*GNHW KMHCPRGQRSCD SHLAITHL
5791	36159	A	5837	1	723	
5792	36160	A	5838	186	602	
5793	36161	A	5839	1	843	
5794	36162	B	5840	1	1779	
5795	36163	A	5841	1	1182	

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5796	36164	A	5842	23	302	LSQWKNRWTRTFLASLSVIANI LEPLLNLHVAVWLMPLN*S*V KKQVIM/FWNWWVLGLTDFKN EATDPRVCSWPCWLRSEAADL CGECYSS
5797	36165	B	5843	1	2622	
5798	36166	A	5844	279	1024	
5799	36167	A	5845	3	3619	
5800	36168	B	5846	1	1898	
5801	36169	A	5847	1	420	
5802	36170	A	5848	1	1632	
5803	36171	A	5849	1	597	KYLTKKTKAASVEAVKMLDEI LLQLSASVPVDVMPGEFDPNTY TLPQQPLHPCMFP/LATAYSTLQ LVTNPYQATIDGVRFLGTSGQN VSDIFRYSSMEDHLEILE*LRVR HISPTAPDTLGCYPFYFCGNTPS FGSKIIRGPEDQTVLLVTPDFS ATQTACLVNLR/LACQPISFSG FGAEDDDLGGGLGWAPDSKKW
5804	36172	A	5850	1	1490	RDAARRALNLLGLGEAVWTKQ VRSVAMFSEQAAQRAHTLLSP SANNATFARVPVATYTNSQPF RLGERSFSRQYAHYATRLIQM RPFLENRAQQHWGSGVGKKL CELQPEEKCCVVGTLFKAMPL QPSILREVSEEHNLLQPPRSKY IHPDDELVLEDELQRIKLGKTID VSKLVTGTVLAVFGSVRDDGK FLVEDYCFADLAPQKPAPPLDT DRFVLLVSGLGLGGGGGESLLG TQLLVDVVTGQLGDEGEQCSA AHVSRVILAGNLLSHSTQSRDSI NKAKYLTKKTKAASVEAVKM LDEILLQLSASVPVDVMPGE\FD PTNYTLPQQPLHP\CMFPLATA YSTLQLVTNPYQATIDGVRFLG TSGQNVSDIFRYSSMEDHLEILE WTLRVRHISPTAPDTLGCYPFY KTDPFIFPECPhVYFCGNTPSFG SKIIRGPEDQTVLLVTPDFSAT QTACLVNLRSLACQPISFSFG AEDDDLGGGLGLGP
5805	36173	B	5851	13	441	
5806	36174	A	5852	3	279	

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5807	36175	A	5853	23	841	EKAKEFRRAEEKKKEVPAVPET LKKK*RNFAELKIKRLRKKFA QKMLQRARRKFIHEKAKH\YH KEYRQMYRT\ILMA\RMARKA GNFYVPAEPKLA\FVIRIRGINGV SPKVRK\VLQLLRLRQIFNGNLL *SSTKASINMLRDCRSHILAWG VPQILKSVNELIYKIRGYGKINK KRIA\LTDN\ALIARSLGK\YGIL LAWEDLIHEYTV\GKRFKEAN NFPVGPSNLSSPPRWK*KKKTT HFCKKVEDAGNREGRTSRNP YLEGMDLRCLP
5808	36176	C	5854	57	287	
5809	36177	A	5855	1	450	
5810	36178	A	5856	1	549	
5811	36179	A	5857	3	581	EQRKIPLVPENLLKKRKAYQAL KATQAKQALLAKKEQKKGKG LRFKRLESFLHDSWRQKRDV RLRRLEVKPHALELPDKHSLAF VVRIERIDGVSLLVQRTIARLRL KKIFSGVFVKVTPQNLMRLIV EPYVTWGFNPKSVRELILKRG QA\KVKNKTIPLTDNTVIEHLG ECYSLGVSWGRKPGSLKL

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5812	36180	A	5858	1	2652	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLYHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNILFENISHE TSLYYLLSNYYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHLDDLHLYLND ILIINCEFLNDVLTDDLNLRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHLCAQAAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVAAY HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPPQAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSGIKTSGESEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNKENLLKKRKAYQ ALKATQAKQELLAKKEQKKGK GLRFKLLESFLHDYWQQKPKD
5813	36181	A	5859	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLGEVRQEETFSIS DSQISNTEFLQVVKVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVFLLSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
5814	36182	B	5860	1	843	

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5815	36183	A	5861	3	1260	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGVEVRQEETFSISD SQISNTEFLQVIQIYNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIGWYRFRNTQQMSYR EQVLHKQLTRILGVPDLVLLF SFISTANNSTHALEYVLFRRNRR YNQRISLAIPNLGNTSQQEYKV SSVPNTSQSYAKVIKEHGTDFE DKDGVMKDIRAIYQVYNALQE KVQAVCADVEKSERVVESCQA EVNKLRRQITQRKNEKEQERRL QQAVLSRQMPSESLDPAFSPRM PSSGFAAEGRSTLGDAEASDPP PPYSDFHPNNQUESTLSHSRMER SVFMPRPQAVGSSNYASTSAGL KYPGSGADLPPQRAAGDSGE DSDDSDYENLIDPTEPSNSEYSH SKDSRPMAPDEDPNTQTSTQI
5816	36184	A	5862	1	742	
5817	36185	A	5863	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFVQNCLS LARSDSREQGLVLMESNRNE VPPGVSYSKDGAJSLKGDVP ASEVTSKDSTFSQFSPISAECC GDDEKIKVDDPLTRTCNQASG SAPQQDYDKLKAFFGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
5818	36186	A	5864	2	626	LCQHNRIKHKGIRKVYACSHCP DSRRTFTKRLMLEKHVQLMHS LKDPDLKE/TDRCHQ*GGNRNK RRH/LSSPVPSGSWKNQFSR/CA MCGFTTENLLQFHEHIPQHKSD SSSYQCQECGLWYTSHVLSLRH LFIVHKLKEPQPVSKQNGAGED NQQENKPSHEDESPNGTVSDRK CKVCVKTFETEAALNTHMRIH GMAFIKSKRMSSAKK

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5819	36187	A	5865	1	765	MQRDVYISHVRKEHGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRPPQGPQ SQVEVERTGSGVQASQGAITQ PLKKLKINVFKVHKCARAIGFT TENLLQFHEHIPQHKSDGSSYQ CREHLFVVHKLKEPQPVSKQN GAGEDNQENKPSHEDESPNG AMSDRKCKVCAKTFETEAALN THMQTHGMAFIKSKRMSSDEK
5820	36188	A	5866	878	1095	AFFLDLTLYTQFSRC*SRAFPFA HPTAMACSSRR/LIRVQEQDAA QVTHQSFKDDL CVVLGDTLHH RFFLI FRH
5821	36189	A	5867	1	1137	
5822	36190	A	5868	1	1380	
5823	36191	A	5869	55	558	
5824	36192	A	5870	1	897	
5825	36193	A	5871	1	565	
5826	36194	B	5872	22	1696	
5827	36195	A	5873	295	522	
5828	36196	A	5874	3	3678	IPAPVSGRPPPGLLAEGKLSGPR PMCRTLGSHTAASAPARMWL FHTLLCIASLALLAAFNV DVAR PWLTPKGGAPFVLSSLLHQDPS TNQTWLLVTSRPTKRTPGPLHR CSLVQDEILCHPVEHVPIPKGRH RGVTVVRSHHGVLCIQVLVRR PHSLSSELTGTCSLLGPDLRPQA QANFFDLENLLDPDARVDTGD CYSNKEGGGEDDVNTARQRR LEKEEEEDKEEEDEEEEEEAGT EIAIILDGSGSID
5829	36197	A	5875	1	3189	

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5830	36198	A	5876	1119	2463	LRAGGPGQGGKGAHPGRRVD ELLLGHPTAVGCAKGTDCPTPT PGGLWV*GVQEESDLPTAVDS SRPDIRDQAWASVHWELYVHG SSFINT*GERGAGY/AVITW/STV VEARSMPQGTSAQKAELIAFIR ALELSEALAKTVRQRCVSCRQ HHARQGPVPPGIQAYGAAPFE DLQVDFTEMPKCGDIRKIVTGD VNTPAILGVVSSPPSHIGNNITE DPELQPILAGLSLSMYLVTVLR NLLIILAVSSDPHLHTPMCFFLS NLCWADIGFTLATVPKMIVDM QSHTRVISYEGCLTRISFLVLFA CIEDMLLTVMAYDCFVAICRPL HYPVIVNPHLCVFLLVYFFLSL LDSQLHSWIVLQFTIKNVEISN FVCDPSQLLKLACSDSVINSIFM YFHSTMFGFLPISGILLSYKIVP SILRISSDGGKYKAFSTCGSHLA
5831	36199	B	5877	1	1830	
5832	36200	C	5878	109	245	
5833	36201	B	5879	1	801	
5834	36202	B	5880	171	288	
5835	36203	B	5881	49	502	
5836	36204	B	5882	1	639	
5837	36205	A	5883	1	821	MSGQFDLLWTPEEDNSDESD AEGEHGDGAEEEEAPPPVPRGP KPAGLGRRPCPYEQAQGGDGP EEQWMSFCWDIPRKS GAPRERI TLRRHLEDCGCKVSKKKAQICR QQKDPQEESPAQFYERLCEAYG MYTPFDPDSPENQRMHMLV RQSAEDMRRKLQKQAGLAGM NPSQLLERASQVFVNRAV/TP* GKQQREWRERG*YDSQYRRGG TQPCDIVPNIRRRER*YHSQYRR RARPPGPH*SERGALRPGSLPRQ AA*RVPSGPADGQ
5838	36206	A	5884	1	1860	

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5839	36207	A	5885	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQ\PSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPPVDPSSAMM/SR RAHRSRGPDQRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
5840	36208	B	5886	1	2379	
5841	36209	B	5887	1	6741	
5842	36210	B	5888	165	928	
5843	36211	A	5889	56	2028	
5844	36212	B	5890	1335	3804	
5845	36213	A	5891	365	1573	
5846	36214	A	5892	1	1491	
5847	36215	A	5893	25	458	
5848	36216	A	5894	1	1194	MGGNAADKFRAGVELALQSG NKVCVCSPRTTISGDAVAPRSV LPGCRHIPGEISQSHCWAGRS LSSRKRGSFLRRMGFIKVVKNK AYFKRYQVKFRRR\RKGK\TDY YARKR\LVIQDKNKYNTPKY\R MIV\RVTNRD\ICQMLYA\RRIE GDMIVCAA\YCTPNLPKIWV*RV GLTNYAAAY\CTGLLL\ARRLL NRFGMDKIYEGQVELTGDEYN VESIDGQPGAFTCYLDAGLAR\ TTTGNKVFGAPEGKLWMGGLS IPHSTK\RFPGYDSE\SKEFNAE VTSGKHIMGPKCLQNYM\RYL ME\ED\EDAYKK\QFS\QYIK\NS VT\PDMM\EEMYK\KAHAAIRE ESSSMEKKAQGKFKKKRWNR PKMSLAQKKDRVAQKKASFL QSSRSGLLES\TPAIFP
5849	36217	A	5895	1	1191	
5850	36218	A	5896	21	159	PRSSVRPAGGFSSTCPPSWAAS RSCTTSHGCGHQ*CAGTGTQTR L
5851	36219	A	5897	1	1062	
5852	36220	A	5898	1	246	
5853	36221	A	5899	1	642	
5854	36222	A	5900	2	648	
5855	36223	A	5901	1	555	
5856	36224	B	5902	151	513	

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5857	36225	A	5903	1	2915	VSLAFCQPLSLSLSPLLPLASSL APERTHLPGPGSLLLSPPSFPAR PREPRGCVTAAPPDKMDTAE DICRVC RSEGTPEKPLYHPCVC TGSIKFIHQECLVQWLKHSRKE YCELCKHRFAFTPIYSPDMPSRL PIQDIFAGLVTSIGTAIRYWFHY TLVAFARWEVLLPACRIYKCL FLGSVSSLLTLPDMLSRKNLL ADCLQGC FVVVTCTLCAFISLV WLREQIVHGGAPIWLEHAAPPF NAAGHHQNEA
5858	36226	A	5904	3	907	
5859	36227	B	5905	102	406	
5860	36228	B	5906	1	5241	
5861	36229	A	5907	1	519	
5862	36230	A	5908	1	3067	TRDAAMAEAALEAVRSELREF PAAARELCVPLAVPYLDKPPTP LHFYRDWVCPNRPCHRNALQH WPALQKWSLPYFRATVGSTEV SVAVTPDGYADAVRGDRFMM PAERRLP LSFVLDVLEGRAQHP GVLYVQKQCSNLPSELPQLLPD LESHVPWASEALGKMPDAVNF WLGEAAVTS LHKDHYENLYC VVS GEKHFLFHPPSDRPFIPYEL YTPATYQLTEEGTFKVVDDEA MEKAEVSRTCLLTVRVLQA
5863	36231	A	5909	1	429	
5864	36232	A	5910	1	690	
5865	36233	A	5911	1	376	
5866	36234	A	5912	1	471	
5867	36235	A	5913	1	606	
5868	36236	A	5914	3	2756	SPGGRTPAARDSIVREVIQNSKE VLSLLQEKNP AFKPV LAIIQAG DDNLMQEINQNLAEEAGLNITH ICLPDSSEAEIIDEILKINEDTRV HGLALQISENLFSNKVLNALKP EKDVDGVT DINLGKLV RGDAH ECFVSPVAKAVIELLEKSGVNL DGKKILVVG AHGSLEAALQCLF QRKGSM TMSIQWKTRQLQSKL HEADIVVLGSPKPEEIPLTWQP GTTVLNCSHDFLSGKVGCGSPR IHFGGLIEED
5869	36237	A	5915	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG

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5870	36238	A	5916	1	334	
5871	36239	A	5917	88	870	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIRRTALA\MGAI RGIHVE\PPAEAERF/GVPLQV ARVLGQAWQRRRLDLVLLGK QAI\ACTDCNQ\TGQMTAGFLD WPQGTFA\SQVTLEGDKLKVER EIDGGLETLRLLPAVVTADLR LNEPRYA\TLP\NIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
5872	36240	A	5918	1	774	
5873	36241	A	5919	1	1557	
5874	36242	A	5920	1	759	
5875	36243	A	5921	305	638	
5876	36244	A	5922	364	540	
5877	36245	A	5923	9	111	
5878	36246	A	5924	1	594	
5879	36247	A	5925	169	594	
5880	36248	A	5926	37	936	
5881	36249	B	5927	91	2043	

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5882	36250	A	5928	1	2298	MSRKGPRAEVCADCSAPDPGW ASISRGVLVCDECCSVHRSLSGR HISIVKHLRHSAPPTLLQMVB TLASNGANSIWEHSLDPAQVQ SGRRKANPQDKVHPIKSEFIRA KYQMLAFVHKLSCRD\DDGVT AKDL\SKAN*HSSVR\TGKPKW TCLRLLS\LGA\QANFFHPEKGT TPLHVAAKAGQTLQAE\LVVY GADPGSPDVNGRTPIDYAIRQA GHHELAERLVECAQYELTERLA FYLCGRKPDHKNHGYIIPQMAD SLDLSELAKAAKKKLQALSNRL FEELAMDVYDEVDRRENDV WLATQNHSTLVTERSAPFLPV NPEYSATRNQGRQKLARFNAR EFATLIIDILSEAKRRQGGKSLSS PTDNLELSLRSQSDLDQHDYD SVASDEDDQEPRLSTGATRSN RARSMDSSDLSDGAVTLQEYL ELKKALATSEAKVQQLMKVNS SLSDELRRLLQREIHKLQAE\nLQ LRQPPGPVPTPLPSERAETPM APGGSTHRRDRQAFSMYEPGS ALKPFGGPPGDELTTTLQPFHS TELEDDAIYSVHVPAGLYRIRK GVSASAVPFTPSSPLLSCSQEGS RHTSKLSRHGSGADSDYENTQS GDPLLGLEGKRFLELGKEEDFH PELESLDGDLDPGLPSTEDVILK TEQVTKNIQEILRAAQEFKHDS FVPCSEKIH\AVTEMASLFPKRP
5883	36251	A	5929	1	924	
5884	36252	A	5930	214	387	RRAFHPTPVT SARSTLHSFGQL RLPHSM*SGGTLLISMMQANQS LSLEFSKWTSFPLD
5885	36253	A	5931	1	1639	
5886	36254	A	5932	1	1098	
5887	36255	A	5933	1	546	NSSQVLQF*YLWVNEAPFRLLT MPQYPQINITADQLWGSVAVL V*MHNGLPGLCI*AWEKTTSG GEQYPSSSAIKQGPKEPYADFA RLQESLKKVIADLAAQDIVLWL LAFDNANPECQAALRPIRGKAH LVDYTKVCDGIRDKLHKATLL AQAMAGLRMGKGNTPFPGACF NCGKHGH

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5888	36256	A	5934	1	648	MGQVWGLVHFTLEVHTGDEE EQEYSEVTEDEVTEHVYLP KVAKEEEEAGIQQARQEGD LEAWQFPVRIHPPDQQENIT ATFEFPFKLLKELKQAINQY GPGSPFVMGLLKNVTVSSQ MIPTDGDPLTRACLTPAQFL QFKTWWADEASQAARNAWA QPQINITADQLLG VGGWAG LDAQFVMQDDAIEQLRGVC IRAREK\IT*CGEQYPSF
5889	36257	A	5935	120	254	
5890	36258	C	5936	366	479	
5891	36259	A	5937	1	933	
5892	36260	A	5938	1	840	MGKVWGLVHSTLELFHTDVEE EGEYNEVTEEVTKHVYLP AKAAKEGEVHPYHSAPPHY YFEENDPPDLSFLEDTGTP RLAAAA TTKANA\KQPL LLSPSMHR/PLPTRPLLAG\Q ATALPQGV*PLIAPPTRP HLEHCSTQ*RPQPAPTLGE ITPVTVQAPLHPRAVQPW/H STPTRSWLQAVMPGIAPPSR SPPWAVQLRILTYLGCLST TPAAVQSLSQPPASVRQAR VPQAPASSLCQEKPPSPPPV APHGAAAAARPPSYHSSCA SVAVVAANVLIG
5893	36261	A	5939	1	134	MGQVW*KSQSPKA*EPGVSCP RAGRREASVPRWYSS
5894	36262	A	5940	1	1158	
5895	36263	A	5941	1	673	MGIALGSPTTGPKAMKQNL SIGPAGILLPQPVMTPGCP AAAPPVAPRCGYVLSEDAW GNLQGLCTGLSCGQPVAP WATDSGGAQDPVALLPPF PSRGLLGPSCMQRSQV VKGGRQSEISSQNKKVIA DLAAQDIVLQLLAFDNAN PDCQAA LRPIRGKAHLV DFIKACDVIGGIPNLLLH PRGLRAITIAVFGKQIR TSGSNPLRSTFLSRSR SISKNCSEV
5896	36264	A	5942	1	1182	

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5897	36265	A	5943	1056	2128	TQPPTWGQIKKLSQMVEENLR KAGQLVTMNNLMVAMIVVITT TEEQEYSEVTEEVTEQVYLP AKVAKEGEVHPYPSAPPHYFFE EKEWPDPPDLSFLEDTRQKVVA PVTVRAAPRATVLSIQAGIQQ AR*EGDLEAWQFPVRIHPPDQQ GNIIVTFEPFPFKLFKEFKQAVN QYGPSPFVMGLLKNVAVSSW MIPTDWDALTRACLTPAQFLQF KTCAMKQGPPEPYVDFIARLQE SLKKMIADSAAQEIVLQLLAFD NAHPDCQAALRPIRGKAHLVD YVKACDGIGEYTPSTYEKKVN CKTASCRSFRRYPEEGIVITGDD SSMRVVVPEDLPVGQDVEVED RDIDDPDPV
5898	36266	A	5944	1	300	
5899	36267	A	5945	1	373	
5900	36268	A	5946	1	2976	
5901	36269	A	5947	287	544	
5902	36270	A	5948	831	4555	
5903	36271	C	5949	108	434	
5904	36272	C	5950	145	402	
5905	36273	A	5951	3	1104	GSRPGGHTLQSHRGRHAQGLR SPLLAPVCLGCGTWGQRRLFW SLKI*RLLCWF/CRRLQINCKNK PAIPRGPT/GPSEKSGLLLQDQG DTTNTTEENSKSLENIFGRVIKE NFQSLVRDLDI\QYKKHKEHPG NSSQKDHHLGTLSGYPKLRQR KES*ELSDRSTRKISQS/YNLYTP NTGAPRFIKQLLTDLRNEIDSNT IIVGYFSTPLTALDRSSRQKVND ETVDLNYTLEQMDLTEIYRTFH PTTTEYTFYSTVHGTFKIDHMI CHKMSLNEFKKTEIISSTLSDHS GIKLEINSKMNLQNHANTWKL NNLLLNEHWVKNEIKMEIEKFF KLNDSDNTTYQNLWDMKAV LRGKFIALNTYIKKMM
5906	36274	B	5952	1	2367	
5907	36275	A	5953	21	132	WREGARQCQEDPAEFLSD*DW ADPGPPHNAPGQNW
5908	36276	A	5954	1	1461	

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5909	36277	A	5955	31	802	SAWWNSRELLDPQSRSRSGFCF *EYPPTSGTEQESVSGNRALCSS LRMNGDQNSDVYAQEKQDFV QHFSQIVRVLTEDEMGHPEIGD AIARLKEVLEYNAIGGKYNRGL TVVVAFRELVEPRKQDADSLQ RAWTVGWCVELLQAFFLVAD DIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLLKLY CREQPYYNLIELFLQSSYQIEI GADPGPPHSPPRAMWILSDSLK RGTNLLSSTRQLSTPSTFL
5910	36278	A	5956	1	532	RLNEAEQKYKDIQDKLQISET NARAPECMALKADVAKKRA YNEAEVLYNRSLNEYKALKKD DEQLCKRIEELKK/RVLTN/RLE PERLERQKKISWLKERVKAFQN QENSVNQEIEQFQQALEKDKEE HGKIKREKLDVKHALSYNQRL LKELKDSKTDRLKRFPGPNVPAL LEAIDD
5911	36279	A	5957	121	475	
5912	36280	A	5958	131	2891	
5913	36281	A	5959	131	3101	
5914	36282	A	5960	44	292	CQDYRWLLASSVLCWLY*KTQ QSDTEDLLCSAPTGPPEEDD GKS*PEKCRQMT*KKWSINCKC FFASSHNTTSLSIGLFLR
5915	36283	B	5961	26	239	
5916	36284	A	5962	131	3121	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHHDPALSPLLPEEARPKHA LPPKKKLPKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
5917	36285	A	5963	1	1185	
5918	36286	A	5964	495	636	PSVVLIDINVSFNHWSAIFLTME\ PFCHRVRSHAMESR*GSVLP*N KPQ
5919	36287	A	5965	2	376	

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5920	36288	A	5966	3	688	GTSAGDGCPHPTVLWPPDIMP PKKDVPVKKPAGPSISKPAAKP AAAGAPPAKTKAEPVVPQAPQ KTQEPPVDLSKVVIEFNKDQLE EFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLG NPKSDEMNVKVLDFEHFLPML QTVAKNKDQGTIEDYVEGLRV FDKEGNGTVMGAIRHVLVTL GEKMTTEEEVEMLVAGHEDSNG CINYEELVRMVLNG
5921	36289	A	5967	54	540	AVYMCDLTENQTADLIPSTVEF KEA\FQLFDRDGDGKILYSQCG DVMRALGQNPTNAEVLKVLGN PKSDEMNVKVLDFEHFLPMLQ TVAKNKDQGTIEDYVEGLRVF DKEGNGTVMGAIRHVLVTLG\ EKMTE\EDVHMLVAGHEDSNG CINYEAFVRHILSG
5922	36290	A	5968	1	405	
5923	36291	A	5969	93	506	
5924	36292	B	5970	43	615	
5925	36293	A	5971	2	598	TRTSLHAALFSWDPVGTSLFTI SHLEVKKGMLVGIVGKVGCGK SSLLAAIAGELHRWEQVQCGG HTLH*APEQMLRGHVAVRGLS KGFGLATQEPWIQFATIRDNILF GKTFDAQLYKEVLEACALNDD LSILPAGDQTEVGEKGVTLSSG QRARIALARAVYQEKELYLLD DPLAAVDADVANPPACTGCNP
5926	36294	B	5972	137	371	
5927	36295	A	5973	1	1398	
5928	36296	A	5974	1	915	
5929	36297	A	5975	40	564	
5930	36298	A	5976	62	280	
5931	36299	A	5977	17	744	
5932	36300	A	5978	1	537	
5933	36301	A	5979	242	576	AANSLYKGSNSAALIILVGP*IS CLTHPVYMK*APS*TICLLYSM VILKALFFPQNINFILPVKSRHS
5934	36302	A	5980	924	3473	
5935	36303	A	5981	1	604	
5936	36304	A	5982	288	732	RNCIANYDFLILPTSF*WCSFFV LLFLFLSLSSLKLHSDLDKGE GTAKYTLSGDGAGPVFTIDETT GD\HAIRSLADREEKPFYTLR\A Q\AVDIETRKPLEPESEFNIKVQ DI\NDNEPKFWG WDLMVATGP QKWSPVG*VGQIKIL
5937	36305	A	5983	1	1510	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5938	36306	A	5984	1	603	
5939	36307	A	5985	250	505	GFSPTWQ*MNTHPSLMCFSPSR TTGSAAAN*RGQQKSGVPFWS* SHVKGKDQIPVPICPCTTAPVT MESTCIC*PTHVSCCKTLMV
5940	36308	A	5986	3	131	RVLVPDIRGAI*AVPKSPSIKSY ALPRALFLLPPYPDDLGI
5941	36309	A	5987	1	913	
5942	36310	A	5988	5	177	
5943	36311	A	5989	3	383	
5944	36312	A	5990	1	1323	
5945	36313	A	5991	342	594	
5946	36314	A	5992	1	321	
5947	36315	A	5993	3	601	
5948	36316	A	5994	1	1023	
5949	36317	A	5995	1	606	
5950	36318	A	5996	1	1536	
5951	36319	A	5997	2	1394	
5952	36320	A	5998	371	1045	
5953	36321	A	5999	3	360	
5954	36322	A	6000	1	636	
5955	36323	C	6001	1	861	
5956	36324	A	6002	1	711	

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5957	36325	A	6003	18	2446	AGSPPRADAAAGLWERGHLLS AAVAAMGKRDRADRDKKKSR KRHYEDEDDEEDAPGNDPQE AVPSAAGKQVDESGTKVDEYG AKDYRLQMPLKDDHTSRPLWV APDGHIFLEAFSPVYKYAQDFL VAIAEPVCRPTHVHEYKLTAYS LYAAVSVGLQTS DITEYLRKLS KTGVPDGIMQFIKLC TVSYGKV KLVLKHNRYFVESCHPDVIQHL LQDPVIRECLRNSEGEATELIT ETFTSKSAISKTAESSGGPSTSR VTDPQGKSDIPMDLDFDFYEQM DKDEEEEEETQTVSFEVKQEMI EELQKRCIHLEYPLLA EYDFRN DSVNP\ DINIDLKPTA\ LRPYQE KSLR\ KMFGNGRARSGVIVLPC GAGKSLVGVTAACTVRKRCLV LGNSAVSV\ EQWKAQFKMWSTI DDSQICRFTSDAKDKPIGCSVAI STYSMLGHTTKRSWEAERVME WLKTQEWGLMILDEVHTIPAK MFRRVLTIVQAHCKLGLTATLV REDDKIVDLNFLIGPKLYEANW MELQNNGYIAKVQCAEVWCP MSPEFYREYVAIKTKKRILLYT MNPKNFRACQFLIKFHERRNDK IIVFADNVFALKEYAIRLNKPYI YGPTSQGERMQILQNFKHNPKI NTIFISKVGDTSFDLPEANVLIQI SSHGGSRRQEAQRLGRVLRAK KGMVAEEYNAFFYSLVSQDTQ
5958	36326	A	6004	1	933	
5959	36327	A	6005	1	879	
5960	36328	A	6006	1	727	
5961	36329	A	6007	1	1509	
5962	36330	A	6008	1	1698	

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5963	36331	A	6009	2465	2751	VPTSSAPMPWPSRQWERSRT MTVISSSQLMALGP*RTAQVLA AAPA*LGASSAARGIDPQAGKT QK\ETDIATMQLCANKLDDKKDF FGKSDPFLVFYRSNEDGTFTICH KTEVVKNTLNPVWQPFSPVRA LCNGDYDRTVKIDVYDWD RD GSHDFIGEFTTSYRELSKAQNN FTVYEVNLNPRKKCKKKKYVNS GTVTLLSFSVDSEFTFVDYIKGG TQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLS AYAMALKAVGEIIQDYDSDKL FPAYGFGAKLPPEGRISHQFPLN NNDEDPNCAGIEGVLESYFQSL RTVQLYGPTYFAPVINQVASLP
5964	36332	A	6010	1	1059	
5965	36333	A	6011	255	405	
5966	36334	A	6012	251	1199	
5967	36335	A	6013	1	1791	
5968	36336	A	6014	335	984	
5969	36337	A	6015	1	127	LPLRLSYEIIYLYFTF*KPEHNKS HFLESHLIRNTRSALNTRK
5970	36338	A	6016	1	774	

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5971	36339	A	6017	186	2699	PRGAKPAVPAGPERPGPGGPC SPRPMVLPTCPMAEFALPRHSA VMERLRRRIELCRRHHSTCEAR YEA VSPERLELERQHTFALHQR CIQAKAKRAGKHRQPPAATAP APAAPAPRLDAADGPEHGRPA THLHDTVKNRNLDSATSPQNGD QQNGYGDLFPGHKKTRREAPL GVAISSNGLPPASPLGQSDKPSG ADALQSSGKHSGLDSLNNKKR LADSSLHLNNGSNPSESFPLSLN KELKQEPVEDLPCMITGTVGSI QSNLMPDLNLNEQEWKELIEEL NRSVPDEDMKDLFNEDFEEKK DPSSGSATQTPLAQDINIKTEF SPA AFEQEQLGSPQVRAGSAGQ TFLGPSSAPVSTDSPSLGGSQTL FHTSGQPRADNPSPNMPASAQ AQNAQRALAGVVLPSSQGPAGA SELSSAHLQQAIAAKQKREQML QNPQATPAPAGQMSTWQQT GPSHSSLDVPYPMEKPASPSSY KQDFTNSKL/PHDA*CE*EFPSA RRPLPPAQPCPAESPATE*LES ELRE/YTRGLCWIRQYKTPFSL QSGLWARQPGVWPEQASPDGL SSPAAPVYKSRAELPVSEAKA RKYAFPITGSTWPGAEPFQCPC ASPGYQCWDPAACRVRGQLPQ QLPLSQPATGRCNEAASVAFG PTETKGAAAKAFTATAVPSEAT APSRGTGEATVSAPSDPPTTPVP
5972	36340	A	6018	1	1062	
5973	36341	A	6019	3	566	ASRPPVTLRLVVPASQCGSLIG KGGCKIKEIRESTGAQVQVAGD MLPNSTERAITIAGIPQSIIECVK QICVVMLESPPKGV TIPYRKPSP SSPVIFAGGQAYTIQQQYAIQP DLTKLHQL\AMQQCHFPMTG \NTGFQWALES\SFPEV\KGYW\ AGLDASAQTTSHELTIPNDLIGC IIGRQGAKIN
5974	36342	A	6020	2	531	TLRSSWQVVRTGTAQAATVRG FPPHPPRP\SASTLTLEGPPLEAY TIQQQYAIQPDLTKLHQL\AM QQSHFPMH/GDGIHSDYSAG\LD ASA\QTTSHELTISKRILIGLA*S GRSRAPKINGGSRQMSGAQ\IKI ANPV\EGSTD*GRFTITGSAASIS LAQYLINVRLSSETGGMGSS

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5975	36343	A	6021	181	1369	PLKVQLPRTLDDMDTGVIIEGGL NVTLTIRLLMHGKEVGSII\GKK GESVKKMREESGARI\NISEGNC PERI\TLAGTH*LPSFKAFAMI\I DKLGRRDISSSM\TNSTAAQLGP PVTCLKG\APAS\QCGSLIGKGG CKIKEIRESTGAQVQVAGDMLP N\STEAGHHYLLGIPQSI\ECV\K QILRGSCWETLFPSSPPKGV TIP\ YRPK\SSSSPV\IF\AGGPGQVPA QAATVRAFPPTPRPCGSTLTWE GPPLEAYTIQQQYAIQPD\LT L\HQLAMQQSHFPMTHGNTGF SG\IESSF\PEVKGYWAGL\DAS AQTTSHELTI\PNGFDWAGIIGA FKGAKIN\EIRQMSG AQIKIANP VE\GSTRQVTITGSAASISLAQ YLINVRLSSETG\GMGN
5976	36344	A	6022	1	690	
5977	36345	A	6023	1	399	
5978	36346	A	6024	3	397	
5979	36347	A	6025	3	249	
5980	36348	A	6026	177	477	
5981	36349	A	6027	49	451	
5982	36350	A	6028	1	1305	
5983	36351	A	6029	1	568	
5984	36352	A	6030	207	1053	PLTFGP ARWRET PPSLYKEFSG LFGSFFLSSAWGAHNLRALFLL LPSSRIQPTPWVFGDLKSPAGL QVLNDYLADKSYIEGYVPSQA\ DVAVFEAVSSPPPADLCHALR WYNHIKSYEK\EKASLPGVKKA LGKYGPADVEDTTGSGATDSK DDDDIDLFGSDDEE\ESKPKRL \REERLAQYESKKAKKPG\LVA KSSILLLVKP\WD\DETDMAKLE ECVRSIQADGLVWGSSKL\VPV GYGIKKLQIQCVVEDDKVGTD MLEEQITAFEDYVQSM DVAAF
5985	36353	A	6031	1	211	
5986	36354	A	6032	27	241	EVFGSWWQVPHEWLGSVLV MSEFLFH*LM*ELVLKRV*CLS HLSLAPFLAM*YACSSSPSTMI VSFFFF
5987	36355	A	6033	1	588	

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5988	36356	A	6034	279	1333	LIFCGCWL FASLTVM EAAHFFE GTEKLLEVWFSRQQPDANQGS GDLRTIPRSEWDILLKDVQCSII SVTKTDKQEAYVLSESSMFVSK RRFILKTCGTTLLKALVPLLKL ARDYSGFDSIQSFFYSRKNFMK PSHQGYPHRNFQEEIEFLNAIFP NGAGYCMGRMNSDCWLYLTL DFPEER\VISQPDQTLEILMSELD PAVMDQF*HEDG\VTAKDVTRE SGIRDLIPGSVIDATMF\NPCGYS \MNGMKS\DGTYWT\IHITPEPEF SYVSFETNLSQTSYDDLIRKVV EVFKPGKFVTTLFVNQSSKCR RLGLPQK\IEGFKR\LDCEGWF KDSNFFF\TSFAKKQQQQQS
5989	36357	A	6035	1	687	
5990	36358	A	6036	1	894	
5991	36359	B	6037	1	1458	
5992	36360	A	6038	1	1062	
5993	36361	A	6039	1	1218	
5994	36362	A	6040	277	3508	RSGRIAWAQEMDAAGRGCHLL PLPAARGPARAPAAAAAAS PPGPCSGAACAPSAAAGAGAM NPSSSAGEEKGATGSSSSGSG AGSCCLGAEGGADPRGAGSAA AAGAAALDEPAAAGQKEKDEA LEEKLRNLTRKQVSYRKAISR AGLQHLAPAHPLSLPVANGPA KEPRATLDWSENAVNGEHLWL ETNVSG\DLCYLGEENCQVRFA KSALRRKCAVCKIVV/HTTACIE ELEKINFRCKPTFREG\GS
5995	36363	A	6041	45	155	
5996	36364	A	6042	1	979	
5997	36365	A	6043	3	1042	
5998	36366	A	6044	2	401	
5999	36367	A	6045	1	5772	
6000	36368	A	6046	16	5678	VTSGRLLFYFRSMGPGCDLLLR TAATITAAAIMSDTSDSDSAG GGPFSLAGFLFGNINGAGQLEG ESVLDDECKKHLA GLGALGLG SLITELTANEELTGTGALVND EGWVRSTEDAVDYS DINEVAE DESRRYQQTMGSLQPLCHSDY DEDDYDADCEDIDCKLMPPPPP PPGPMKKDKDQDSITGEKVDFS SSSDSESEMGPEATQAESEDG KLTLPLAGIMQH DATKLLPSVT ELFPEFRPGKVLRFLR
6001	36369	A	6047	1	354	

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6002	36370	A	6048	1	666	
6003	36371	A	6049	129	456	TYPVVGESSRRPERSRGVPGPD AAAESHFRPGRISNPLHRAGEQ GHARAEGSGVFRPHRGRGLRL LFVQAPDQVDAPVHG*VAPPAP GARDAQTCRSHECPTRPLDEV
6004	36372	A	6050	1	1095	
6005	36373	A	6051	171	619	
6006	36374	A	6052	1	621	
6007	36375	B	6053	1	181	
6008	36376	A	6054	1	905	
6009	36377	A	6055	1	855	
6010	36378	A	6056	2	244	
6011	36379	A	6057	3	829	LTDCLKDVDLIPPFNRMLLEV FGKLYAWTVQNILNVLMDSA KFKELGIQPVPLQTITSENPLGP SLGSIPQARFLLMMLSLTLQH SANNLDLLNSGTLALTQTALR LIVLPDVELLI*DHLL*MQTSIV* LPVLALLLAQHRSFGPSCDNVE EDMNASAQGASATVLEATRKE TAPVHLPVSGPELAATMKIGTR VMRGVDWKWGD/QEAEQTER NIHPTTMMFTSTINLLQTLCLPA RVHAEIMQSEATKTLGLLQIL VESGTTDKTRME
6012	36380	A	6058	133	5421	IFVFGCPGSPRLQMVENRYTES FFTGQNCRNNEKVTLVRIADLE NHNNDGGFWTVIDGKVYDIKD FQTQSLTENSILAQFAGEDPVV ALEAALQFEDTRESMHAFCVG QYLEPDQEGVTIPDLGSLSSPLI DTERNLGLLGLHASYLAMSTP LSPVEIECAKWVQSSIFSGGLQT SQIHRYRYNEEKDEDHCSSPGGT PASKSRLCSHRRALGDHSQAFL QAIADNNIQDHNVDFLCQIER YCRQCHLTTPIMF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6013	36381	A	6059	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGQAKSQGCSRN ARHQKARSMP LQDQHLALAIL LELAVQRGTL SQMLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTVQ NCRNNEEVT LICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAF CVGQYLEVR LYALSDAEDGRGTL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIPQARFLMMLSMMLT LQHSANNLDLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGPPLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAAQPSAEDS DTEDDSASPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP
6014	36382	A	6060	1	7297	
6015	36383	A	6061	32	259	SLRVTPGGRNVSEKKDRKKTG R/PPELERKSHTERLYLEEGSAE PA*VGRRAPESVNDRGGAIQRA QRGQPAPPLPR
6016	36384	A	6062	3	437	
6017	36385	A	6063	1	425	MTELPTLWKPLKNSPMFRVIAR AFCVTFILVSTHQEMLTITSEN LGPSLGSIPQARFLMMLSMMLT LQHSANNLDLLNSGTLALTQT ALRLIGGTPVELPAELAAPAFR AAAA/VDKNPRRRGQKVAVAK SGGDRGKKS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6018	36386	A	6064	2	14566	RRGGRALRVRPETWEEAGEKM PSEFCLAAQARLDSKWLKTDI QLAFTRDGLCGLWNEMVKDG EIVYTGTESTQNGELPPRKDD VEPSGTTKEDLNDKEKKDEEET PAPIYRAKSILDSVWVGKQPDV NELKECLSVLVKEQQALAVQS ATTTLSALRLKQRLVILERYFIA LNRTVFQENVKVKWKSSGISLP PVDKKSSRPAGKGVEGLARVG SRAALSFAFAFLRRAWRSGEDA DLCSELLQESLDALRAL
6019	36387	B	6065	75	581	
6020	36388	A	6066	517	5495	ESFFTGQNCRNNEKVTFVRIAD LENHNNDGGFWTVIDGKVYDI KDFQTQSLTENSILAQFAGEDP VVALEAALQFEDTRESMHAF VGQYLEPDQEGVTIPDLGSLSSP LIDTERNLGLLLGLHASYLAMS TPLSPVEIECAKWLQSSIFSGGL QTSQIHYSYEEKDEDHCSSPG GTPASKSRLCSHRRALGDHSQA FLQAIADNNIQDHNVKDFLCQI ERYCRQCHLTTPIMFPPEHPVEE VGRLLLCCLLKH
6021	36389	A	6067	1	1851	
6022	36390	A	6068	53	423	YHLTLLIHGTVSATRPGHCSP GKLPSWVPISLQCTPSSPECRSV *RQL*HGHMHELLYIITKADSVI TASCLISRSEWWDGGTVSLV QRFVDYGSSQCQRPHRTGCASS SAPQRASSVAPG
6023	36391	A	6069	1	49	EWSGTRTWWRPWSCRT*CRT
6024	36392	A	6070	1	726	
6025	36393	A	6071	368	485	
6026	36394	A	6073	1	414	
6027	36395	A	6074	3	535	RRREFPAKERESASMSSPEE*P/ DMAKGAPPSQPPNSVPAD/CS RSVRLSSSNFEESLRPTEDDEGQ EGQDSMSRAKANWLRANKV RMQLQEARGEEMSKSLWFKG GPGGGLIIDSMPDIRKRKPIPLV SDLAMSLVQSRKAAITSALASS TLNNEELKNHVYKKTALQALIYP ISC
6028	36396	A	6075	1	222	
6029	36397	A	6076	2	284	NGIPDFSNTTLLRGLQMPGARG PCCGSQRHINLLMGTGVFLVK MKA/NEFFFLDSETRLCIAPEG WREQPQKTSMTFTFLRIKFF VSHYGLL

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6030	36398	A	6077	91	749	
6031	36399	C	6078	1	380	
6032	36400	A	6079	1	877	MPRPDLAPALLVAVLVLLYLL VSAAAPAPSSDSTPENVCVPVET TTNFIWELSSPHNTSAVLLVVF HKGPSPKFEVKLKKNANGLGFS FVQMEKESCSHLKSDLVRIKRL FPGHPAEENGAIAAGDIILAVN GSPRKASSSRCRGSWAMQLSV QAGPSFASYYPAAVEVLHLLRG APQEVTL LCRPPPGALPELEQE WQGQKYKCAWAIVNEAEVEE VVEVAGTVEFFGDQGA*CHHP ACSGKPLGWHGGLSRKCPRLFF RGATRV TGAQGLKEVKQQSFR SNMMWLGLRL
6033	36401	A	6080	1	1683	
6034	36402	B	6081	66	1214	
6035	36403	A	6082	1	5694	
6036	36404	A	6083	3	483	SSLTSSMEDPAAPGTGGPPANG NGN\GGGKGKQAAPKGREAFR SQRRESEGSVDCPTLEFEYGDA DGHAAELSELYSYTENLEFTNN RRCFEEDFKTQVQGKEWLELE EDAQKAYIMGLLDRLEVVSRE RRLKAARAVLYLAQGTFGCED SEVDVLHWSRY
6037	36405	A	6084	1	2646	
6038	36406	A	6085	115	1289	FSPLEPRLCSLGGWGALQAGEP CQPSRAGCGREGATMGCTLSA EERAALERSKAIEKNLKEDGIS AAKDVKLLLLGAGESGKSTIVK QMKIIH\EDGFSGEDVKQYKPV V\YSNTIQSL\AAIVRAMDTLGIE YGDKERKADAKMVCDVVSRM EDTEPFSAE LLSAMMRLWGDS GIQECFNRSREYQLNDSAKYYL DSLDRIGAADYQPT EQDILRTR VKTTGIVETHFTFKNLHFRLFD VGGQRSERKKWIHC FEDVTAII FCVALSGYDQVLHEDETTNRM HESLMLFDSICNNKFFIDTSIILF LNKKDLFGEKIKKSPLTICFPEY TGPNTYEDAAA YIQAQFESKNR SPNKEIYCHMTCATDTNNIQVV FDAVTDIIIANNLRGCGLY
6039	36407	A	6086	1	1053	

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6040	36408	A	6087	2	377	IYDGFDFGFAKGQIKEIGWTDVG GWTGQGGGSILGTRVLP GK/Y MEEIATQMRTHSINALLIIGGFE AYLGLLELSVFVTLKLFYQHFM HVLLTLIPNRRVPICPTSPSACC LWSVSHAFCAYEQN
6041	36409	A	6088	1	591	
6042	36410	A	6089	1	2391	PGRAAPLGLLAMDDDSRAPK GSLRKFLHLSGAGKAIGVLT GGDAQGMNAAVRAVVRMGY VGAKVYFIYEGYQGMVDGGSN IAEADWESVSSILQVGGTHGSA RCQAFRTREGRLKAACNLLQR GITNLCVIGGDSLTGANLFRK EWSGLLEELARNQIDKEAVQ KYAYLNVVGMVGSIDNDFCGT DMTIGTDSALHRIIEVVDAIMTT AQSHQRTFVLEVMGRHCGYLA LVSALACGADWVFLPESPPEEG WEEQMCVKLSENRRARKRLNII IVAEGAIDTQNKPTSEKIKELV VTQLGYDTRVTILGHVQRGGTP SAFDRILASRMGVEAVIALLEA TPDTPACVVSLNGNHAVRLPL MECVQMTQDVQKAMDERRFQ DAVRLRGRSFAGNLNTYKRLAI KLPDDQIPKTNCNVAVINVGAP AAGMNAAVRSAVRVGIADGH RMLAIYDGFDFGFAKGQIKEIGW TDVGGWTGQGGGSILGTRVLP GKYLEEATQMRTHSINALLIIG GFVEAYLGLLELSAAREKHEEFC VPMVMVPATVSNNVPGSDFSIG ADTALNTITDTCDRJKQSASGT KRRVFIIETMGGYCGYLANMG GLAAGADAAYIFEEPFDIRDLQ SNVEHLTEKMKTTIQRGLVLRN ESCSENYTTDFIYQLYSEEGKG VFDCRKNVLGHMQGGAPSPF
6043	36411	A	6090	1	459	

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6044	36412	A	6091	1930	5781	RAKSPANIIMTGSNSHITILTIN VNGLSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6045	36413	A	6092	1	3654	
6046	36414	A	6093	1	5127	
6047	36415	A	6094	1	3663	
6048	36416	A	6095	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
6049	36417	A	6096	1	5073	
6050	36418	A	6097	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
6051	36419	A	6098	1	3235	

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6052	36420	A	6099	1	3070	MATLIPLLFHKHPHLLTQRYQFN VRGGCPTSTSAIATLDPRTAVFP LMSVFQTSAPWPFWGFTHTQP VPQPLKVKIHSSADTAADIQAN RVWSGPPANSKRPAEEGKLT NRKDIHTKNPSVRHHHQRPKV DKTTKTGKKQRRKTGNSKKQS ACPPPKERSSTATEQSWTEND FDKLREGFRRSNYSKLQDEIQT KGKEVENLEKSLDECITRITNTE KGLKKLENYVKNEETSGANAI NWKKGINKIDRPLARL
6053	36421	A	6100	1	3297	
6054	36422	A	6101	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPITGAEI GAINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEASIIIPKGRDITKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
6055	36423	A	6102	1	3417	

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6056	36424	A	6103	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAPIPKAQV SSTEKLNRNCIDDLKPPFALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGPTREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTPEDDEE EKLVAKVRALDLK
6057	36425	A	6104	1	4371	
6058	36426	A	6105	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNDKT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKA VCRGK FIPLNAHKKRQERSKIDTLTSQ KELEKQEQT HSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTETIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPI TGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFI PGM QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPKNITL QLLLVLPELSTLIPLWLPALAGQ
6059	36427	A	6106	1	4449	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6060	36428	A	6107	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL NDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ LELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
6061	36429	A	6108	1	3297	
6062	36430	B	6109	112	3300	
6063	36431	A	6110	3	3316	
6064	36432	A	6111	1	3457	
6065	36433	A	6112	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLELEKQEQRHSPSRQE ITKMRAELKEIETQ
6066	36434	B	6113	1	4753	
6067	36435	B	6114	1	3384	
6068	36436	A	6115	1	3345	
6069	36437	A	6116	1	3780	
6070	36438	A	6117	1	3720	
6071	36439	A	6118	1	3894	
6072	36440	A	6119	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQ
6073	36441	A	6120	1	3780	
6074	36442	A	6121	1	3852	
6075	36443	A	6122	1	3345	
6076	36444	B	6123	1	6136	
6077	36445	B	6124	1	3924	

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6078	36446	B	6125	295	4185	
6079	36447	A	6126	1	405	
6080	36448	A	6127	1	1059	
6081	36449	A	6128	2	518	EKATCDENDSVSNIA TEIKEGQ QSV\HVSPQKQSAWKVIFKKKV SLLNIATRITGGGKSGTVSSQKQ PPSKATSDKTDSALNIA TEIKDG LQCGTVSSQKQPALKATTDEED SVSNIA TEIKDGEKSGTVSSQKQ PALKATTDEKDSVSNIA TEIKD GEKSVTVSSQKQPASK
6082	36450	A	6129	1	843	
6083	36451	A	6130	1	432	
6084	36452	A	6131	2	835	CGSAQAAAAAAAAEEATEKIPAL RP/ASAVGAAGALAVLRDPR WREAGSKS/PETPFS*CQGA/HG GGQFCPSGTAFFPGKMKVMMR KRKKKGQCLPGICRSLKRRKSP RSPGM/IGYSTLSIPPEMLASYQ SYSSTFHSLEEQQVCMA/G*HR QMPGADKPVRACQVRLAGVW AGFTMRHQSRLY*ECSICGVIFR HRCVAHLLGRAIGAGLFVITPA GERGMCCKAIKLGNARVFPVT TL*NDGQCQACMHAG/TTLED GKNYISSPSSSSSSSPSPRVPS
6085	36453	C	6133	278	446	
6086	36454	A	6134	1	1152	
6087	36455	A	6135	1	639	
6088	36456	A	6136	12	1436	
6089	36457	A	6137	367	1056	
6090	36458	A	6139	1	4263	
6091	36459	A	6140	1	1311	
6092	36460	A	6141	1093	1358	MQKKPLTKFNNPSC*KLSIN*V LMGRISK*VTTTATTTTITTTTT TTTTTTTTTATTTTTTTTTTTT TTTTTTMGPTLPLPIGLGS
6093	36461	A	6142	1	699	
6094	36462	A	6143	1	489	

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6095	36463	A	6144	5	916	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQNYTPPGLLGLPDHFR
6096	36464	A	6145	5	756	
6097	36465	A	6146	1	471	
6098	36466	A	6147	184	1097	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQDYTPPGLLGLPDHFR
6099	36467	A	6148	3	672	
6100	36468	A	6149	3	398	LRKIKIDLGKFSNPDGYIDVLQ GLRQSFDLTWRDIMLLDQSLT PNEKSAAKTAAREFGDLWFV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYAPIQQEA V
6101	36469	A	6150	1	420	

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6102	36470	A	6151	1	878	TLLPPRPGVGS DYPNIPGCPMW GNKDPGEGT LER GKVEDASQR TSRTLKETSGKAEHRKKQDGK CSPQGKNALKMYSGEFDPVRV CVPFSLSDLKQLKIDLGRFSDNP DGYIDVLQQLGQSFDLTWRDI MLLLDQTLTPNERNATITAARE FGDLWCLSQVNDRMTTEERER FPTGQQA VPSADPH* DTESEHG DWCCRHLLTCVLEGLRKTRKK AVNFSVMSTVTQGKEENPTAFL ERLREALRKHTSLSPDSIEGQLI LKIKFITRSAADIRKQTSKVHLR PGAKLKTPY
6103	36471	A	6152	1	417	
6104	36472	A	6153	1	415	
6105	36473	A	6154	1	234	
6106	36474	A	6155	1	335	TCPIVPG/QEMIIEISKGRSGLGL SIV*GKDTPLNAIVIEHYEEGA AAVDGRLWAGDQILEVNGVDL RNS SHEEAITALMQTPQKVRLV VYRDEAHYRDEENLEIFPVDLQ
6107	36475	A	6156	109	4687	
6108	36476	A	6157	109	4991	
6109	36477	A	6158	3	862	
6110	36478	A	6159	1	1857	
6111	36479	A	6160	3	100	
6112	36480	A	6161	1	537	
6113	36481	A	6162	125	1184	
6114	36482	A	6163	875	1506	LSIYLV TQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWVSLWQ APIGESQQRPLGFWKALPSSA/ DHKACHAQHSHKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLD TDSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6115	36483	A	6164	1	1566	
6116	36484	A	6165	1	1098	
6117	36485	A	6166	1	538	
6118	36486	A	6167	410	625	LTLVPFSFSVVL TPLPKGNTIRY *TGIL*GWNLSWKGLGFSVTA QPSSGTPRTALGSRTTKPLL VSL LQV

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6119	36487	A	6168	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNDQT FQGLLDTGSELTLPKDPKRHC GPPVKIGAYGGQINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTDGSW RMTVDYL
6120	36488	A	6169	203	850	DVEHVGMRRRWRRRVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LPKDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VV/I/SPVPECIIGIDILSSWQ/NSH IGSLTVHLSSDPKGCHSEWGPE QEKALQEVQAAVQAALILEPY DPAGPVVLEVSLADRDVWVSL WQAPIGESQQRPLGFWSKALPS
6121	36489	A	6170	1	864	
6122	36490	A	6171	1	205	VPDFPAKPIQGPHFNSRYL/REA VHGEAVHAPFIAGQPLT**ELM SIFPQFQFFLYRRLDSHSGQSWQ I
6123	36491	A	6172	1	3039	
6124	36492	A	6173	1	1364	MIISIDA EKAFDKIQPFMLKTL SKLEETASPSV VATYTPQPM L PSAFPPLSEEINPVL PETVMAS PEAVTRQDNVDS PQKPPPTPMF ASRPITRLKPRRAPSEEG IRLK KIGMVEWISHFRPTPLSMEGPE HILLTN TLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPELIIGIDILSSWQNPHIGSL NGRGYINSLALCHNLIRRD LDR FLLPQDITLVHYIDHIMRLDSVK DKWLHLAPPTTKKEAQCLVGL/ FGFWRQHISLWRQPLACYWAL VETEHLTMGHQVTMQPELPIM NWLLSDPSSYKPAPMASWGVP YQQLTEEEKTRA WFTDGSARY TETTRKWTAVAIQPLSRTSLKD SNEGKSSHQQA KNGITVLAGVI DPDYQDEISL/LTPQWRCHPGSS VWRASSLGISHPP
6125	36493	A	6174	114	1996	

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6126	36494	A	6175	1	475	MGRNQNRKAENSKNWNASSPP KEHNSSPAREQNWREDEFNELT EVGFRRSVITNFSDLKEHVLTH CKEAKILEKRLDKWLTKITSVE KS/CK*PDG/D*KPQYENFMKHT QASIADLIKRRKKRYQ*LKIKLM K*SKKTR*EKKKYKLPSENTTN TSMQIY
6127	36495	A	6176	179	393	NKRGYKQMEEHSMMLMDKKNQ YYENGHTAQQN*AGEGNGKGS IRKTGSQIVPLCR*HDCISRKPD CLSPKSP
6128	36496	A	6177	1	710	MARELRDECTSFSSQFHQLEER VSVIEDQMNMKQEEKFREKGI KRSEQLQEIWDMERPNNLCI GVPESDGENGIKLEDTLQDIIQK DFPNLGRQANIQEIQRMPQR YSSRRATPRHIIVRFTKEIQTIR EYYKHLIYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIEAIIINSLPTKKSPRDPGFTA YQRYKEELVPFLKLQFQIEKE GILPNSFYEASHILPKLGRDITK KENFRPISLMNIDAKILNKILAN QMQQNIKNLIRHDQAGFIPGMQ CWFNIRKSINVIQHINRTKDN HMIISIDAEKAFYKIQPFILKTL NKLENKIPRNPTYKGCEGPLFK ENYKMLMLKEIKEDTSKWKNIP WSWIGRINIVKMAILPKVIYRLS APIKLPMIFFTELEKTTLKFIWN QKRACIAKSILSQKNKAGGIML PDFKLYYKATVTKAAWYWYQ NRDIDQWNRTEPSETIPHIYSHL IFDKPDKNKKWKGDFLFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMCKTPKAM VTKAKIDKWDLIKLSFCTAKE TTVRVNRQPTWEKIFAIYSSD KRLISRIYKELKL*PCSIV*SQVA *CLQLCSFGLGLTWQCRLFFGSI
6129	36497	A	6178	464	724	IGEVLLDNILQRFQLGSILPITF RYTNQT*IWSWTLFWLVS
6130	36498	A	6179	1	2022	
6131	36499	A	6180	1	882	
6132	36500	C	6181	1	1935	
6133	36501	A	6182	1	672	
6134	36502	B	6183	140	2195	
6135	36503	A	6184	26	354	

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6136	36504	A	6185	86	747	SLEDAMSLKDDDSGDHQQNEE NSTQKDGEKEKTERDKNQSSS KRKAVVPGPAEHPLQYNYTFW YSRRTPGRPSTSSQSYEQNIKQIG TFAS\VEQFWRFYSHMVRPGDL TGHSDFHLEKEGKPMWEDDA NKNQ\GKWIIRLARKFGSRC\W ENLILAMLGEQF\MVGEEICGG CGVCPAFQEDIIS\IWNKTASDQ ATTARIRDTLARRVL\NLPANTI MEYKN
6137	36505	A	6186	23	127	
6138	36506	A	6187	2	419	
6139	36507	A	6188	1	714	
6140	36508	A	6189	19	373	AVFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFF\SSSSSSFFFSFLL FFFFKLKELRLVI*PLNPEN*ESC PLFSPVNLDMPT*TFKDKRWKV NWARSTSRQQLLESARTKSWA EREGGTRWRAW
6141	36509	A	6190	227	420	KNFLPNCsAKELFFFFFFFFFLL LLLLLLLYFKF/MI*WFKHLAF PLLAFILSPTAL*RGVFHH
6142	36510	A	6191	400	582	
6143	36511	A	6192	1202	1678	
6144	36512	A	6193	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
6145	36513	A	6194	110	377	QWISRQKPYKPEKRGDQYSTFL *EC*ILVPPLFWLVGFLPRDPLL V*WAYGCP*HFFLHFNLGESNN YVSWGCS
6146	36514	A	6195	1	381	
6147	36515	A	6196	1	759	
6148	36516	A	6197	1	609	
6149	36517	A	6198	2	1178	
6150	36518	B	6199	159	290	
6151	36519	A	6200	716	1001	SMPASTHLILVGSCSWKMVIVL PLVTHFLFTALTVPWNLPWVEL YWNM*TM*LRSMKESLMATIF TLPELKA\VLHEKLQ*LQSTEDL *HGLLG
6152	36520	A	6201	5772	5971	TANIIMTGSNSHITILTLNVNRL NARIKRHRENCIKSQDPVCCI *ETHLMCRDITYRLKIKGWSN
6153	36521	A	6202	1	974	
6154	36522	A	6203	1	600	

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6155	36523	A	6204	51	424	MAPKQDPKPKFQEGERVLCFH GPLLYEAKRVKVAIKD/ITREI/H SYITVVGIKIGMNGFRRAKYSN TWTPICRNSENFKKPKSKFVL*T EY*GEMPVD*FWTWNEQWRSC WLPCLYNDTSDLSAGV
6156	36524	A	6205	1	3827	MQKAIRLNDGHVAPLGLLARK DGTRKGYLSKRSSDNTKWQTK W FALLQNLLFYFESDSSSRPSG LYLLEGVCVDRAPSPKPALSAK EPLEKQHYFTVNF SHENQKALE LRTEDAKDCDEWVAIAHASY RTLATEHEALMQKYLHLLQIVE TEKTVAKQLRQQIEDGEIEIERL KAEITSLLKDNERIQSTQTVAPN DEDSDIKKIKKVQSFLRGWLCR RKWKTIQDYIRSPHADSMRKR NQVVFSMLEAEAAY
6157	36525	A	6206	1	900	
6158	36526	C	6207	172	501	
6159	36527	A	6208	499	848	KIRVPAAVAGLSPPLGPWSLRS PSQPERCCPWRNSSWWTAPRTS IITAAGVSPARLSSISCTTRGS WVKTPPTRARMVIASSNLERP SALS RM*PTSQSMTRKRWWRL WPSTTL
6160	36528	A	6209	3	495	SCAQTFPKLDTFLEHIKSHQEEL SYRCHLCGKDFPSLYDLGVHQ YSHSLLPQHSPKKDNA/CLQVF PCERYLRRHLPTHGSGGRFKCQ VCKKFFRREHYLKLHAHIHSGE KPYKCSVCESAFNRKDKLKRH MLIQYDEV RQGLGMVPGTQKV LNKCFCHNVKKKK
6161	36529	A	6210	667	2142	
6162	36530	A	6211	1	396	
6163	36531	A	6212	213	446	
6164	36532	A	6213	101	580	VAGVGSLPRSMEDDAPVIYGLE FQARA\LPQTAETDAIRFLVG TQSLKYDNQIHIIDFDDENNIIN KNVLLHQS/AGEIWHISASPADR GVLTTTCYNRTSDSKVLTCAAV WRMPKELESGSHESPDDSSSTA QTL\ELLCHLDNTAHGNMACV VWEPMGDGD
6165	36533	A	6214	1	933	

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6166	36534	A	6215	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGIHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG
6167	36535	A	6216	1	408	
6168	36536	A	6217	88	871	MADVRLVAVKRVIDYAVKIR VKPDRTGVTGDKHSMNPF EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIRTALAMGA/D RGIHVEVPPAEAEERF/GVPLQV ARVLGQLAKK\EKVDLVLLGK QAIACDTCNQ/TGQMTAGFLD WPQGTFAVSVTLEGDKLKVER EIDGGLETLRKLPAVVTADLR LNEPRYA/TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
6169	36537	A	6218	1	1023	
6170	36538	A	6219	110	842	
6171	36539	A	6220	1	122	
6172	36540	A	6222	1	1257	MNDATAVQEGSQMYSWQKLT PTGPFIMQPEGMGRLFAINKMA EGPFPEHYEPIETPLGTNPLHPN VVSNPVRLYEQDALRMGKKE QFPYVGTTYRLTEHFHTWTKH ALLNAIAQPEQFVEISETLAAAK GINNGDRVTVSSKRGFIRAVAV VTRRLKPLNVNGQQVETVGIPI HWGFEGVARKGYIANTLTPNV GDANSQTPEYKAFL/GQHREGV RN*LHHAAFSGA*LQCFQYAH NSRKNN
6173	36541	A	6223	737	941	WLRMMEHRIPLFWKRESKKA HYVQSSVLLCLGMLR*KYKGG KGKKERKKKDEKRKGNGKKRI KIHSI
6174	36542	A	6224	1	1072	
6175	36543	A	6225	1	585	
6176	36544	A	6226	1	930	
6177	36545	A	6227	28	392	AGEVPLQLPPAAVCSACLQRPA LWWNSSFFL*SCLHALFH*VDL QSLIAFLLLD*SSY*YLCMLHEV LVLCFSAPSGHLCSSLS*LF*LAI HLTFFQGS*LPCIGLEHASLAQR SLLLPTF
6178	36546	A	6228	1	271	SAIVTFVCFMKFSCCVFQLHQV FHVLFKLVLVSSSCNLFSTRFLA SLHWVTTCSFSSEEFVITHLLKP APVNSSNSFSVQFCSLAGKEL

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6179	36547	A	6229	1	1089	MGWRPRWLPYLYWGFQSDLC PHCKRKAQEEDSLAAQAASHP RLSANSKNNSWGWKQYSYALFK AMRHMLCIGYGRQAPAAVSDV WLTMLSMIVGATCYAMFIGH/ ATALIQVLDCSRRQYQEKVVLP REHPNIGSSQEGGTWHQTVGL QQTSDKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGK HYGKQSLTTSAANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSATTRDAELANGALGII ELDNDSPKKRGATQRSSEENI TLKAYKRDVRSLLMLTRNEDV ADSLNSSKKRQNYQLPSIRSVT RCKKIGVCAKGIGCGQGTHYLS VSILNTADRRRLKGFTRTSMY
6180	36548	B	6230	1	1140	
6181	36549	A	6231	3	204	GSDYELGLW*PWLTSATDLH GECYSS*SGASGVVRSSLWARG LAGFRSEAADLRGRESVAVTN
6182	36550	A	6232	1	1296	
6183	36551	B	6233	1	1686	
6184	36552	A	6234	1	627	
6185	36553	A	6235	570	736	SATFGRSSRSGCSGFPAASRRG RLPLSPPPWPAVVRVYPCGMLD NKASAAHPPKKK
6186	36554	A	6236	1	103	
6187	36555	A	6237	699	887	GLQPPAPRETRPLY*TLAWNLIH FLFVSPLDSCDLVRSVLTCLSPP GNSPSFDMHRYQLPCVH
6188	36556	A	6238	2	803	
6189	36557	A	6239	2	1277	YKETYLHLFHTFTGLSIAYFNF GNQLYHSLLCIVLQFLILRLMG RTITAVLTTFCFQMAYLLAGYY YTATGNYDIKWTPHCVLTLK LIGLAVDYFDGGKDQNSLSSEQ QKYAIRGVPSLLEVAGFSYFYG AFLVGPQFSMNHYMKLVQGEL IDIPGKIPNSIIPALKRSLGLFY VGYTLLSPHITEDYLLTETYDN HPFWFRMYMLIWGKFVLYKY VTCWLVTGVCILTGLGFNGFE EKGKAKWDACANMKVWLFET NPRFTGTIASFNINTNAWVARYI FKRLKFLGNKELSQGLS\MLFLF LWHGLHSGYLVCFQMEFLIVIV ERQAARLIQESPTLSKLAATV LPFYLVQQTIHWLFMGYSMT AFCLFTW\DKWLKVYKSIYFLG HIFFLSLLFILPYIHK\AMVPRKE

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6190	36558	A	6240	56	324	
6191	36559	A	6241	68	487	
6192	36560	A	6242	52	457	
6193	36561	A	6243	263	787	SLEV*KWPGVACRLQL*P/MVP APKS*ESKSAGSLNTPSAICRDA SGRGLARPWLRKSKCLACHLV DTRSKTAGGLAPVPSAHLISVR EREPLCAVLVSQLEFRVGVGL VGPTLGARREPCWPQAMGDLA PEPVAALRLISRRALPAFPWGR ARDLQPAMPEPPTHSMGSCAPE PPR
6194	36562	A	6244	3	236	
6195	36563	C	6245	1	1608	
6196	36564	B	6246	1	1083	
6197	36565	A	6247	823	1055	KQKDGTGAPWSRGRSSGRLG THRSPRRGWEAQAWRAAGPET CPAGRQLRPGEKSSAAPG*RSR RKDAYEMDTAKKK
6198	36566	B	6248	1	390	
6199	36567	A	6249	27	363	
6200	36568	B	6250	1132	1268	
6201	36569	A	6251	11	489	
6202	36570	A	6252	356	638	
6203	36571	A	6253	1	507	
6204	36572	A	6254	80	336	
6205	36573	B	6255	100	912	
6206	36574	B	6256	821	2992	
6207	36575	A	6257	2	602	
6208	36576	A	6258	1	519	
6209	36577	A	6259	3	228	STGVPVSQ\RTCLLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
6210	36578	A	6260	1	963	
6211	36579	A	6261	1	925	
6212	36580	A	6262	1	397	
6213	36581	A	6263	1	2625	
6214	36582	A	6264	11	241	SLQHNLNPATFLPVSKSPVKHNC VEVLDSVYSSGPNHRDHP*TSV DWELYMDGSSFTNPCKVTLKK TTSPAPVTPGS
6215	36583	A	6265	1	1662	
6216	36584	B	6266	1	897	
6217	36585	A	6267	3	258	
6218	36586	A	6268	1	279	
6219	36587	A	6269	1	258	
6220	36588	A	6270	1	639	
6221	36589	B	6271	1	1935	
6222	36590	A	6272	698	1643	

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6223	36591	A	6273	91	386	IFDFLLLYVSGCNSIAEPQHFT TTVTRCSPTVAFVEFPSSPQLKN DVSEEKDQK\KP\ENEMSGKGG SWVLFTKGEVQEWRESGLNPT KFNMGPLIYS
6224	36592	A	6274	1	2538	
6225	36593	A	6275	1	471	
6226	36594	A	6276	152	520	CPLTLLLPSRGAGLGTCSPPCLS LPPTPWAPVRPEPPRRAPPPAPR RPVPSTGKEQTTQGLRNASARR GTGRQLHL\SPGVGSTG*SQGL
6227	36595	A	6277	831	1449	HPGQWLRRVCWVSSGAGPLAL CSISCPALAAFPVRGLGTCSPPC LSLPPTPWAPVRPEPPRRAPPPA PR/PPSPIDHPRAEEYE/PHGAGL AGSSTCSPSAESTG*SQLGS*VV RVRGFILEVSETKNPPIPDFTGL PPGSSSAASTLVQVTRL*ISAISL PHLLSRPCSNTARGPVPAPVPG AAVRAPAAGGRWCGGARGRG RRGGGH
6228	36596	C	6278	1	426	
6229	36597	A	6279	1	535	MKHSGAQLASPSGS\PLGPQVE LPASPVPCACTSQPLGGRWDW APWSRGWCSSGRLGPHRSPWS GWE\LRHGGLQVPSAPREGS* GPARNP/GTAPGRPAAPSIGPP SPRPPRTPAGPQALRAAPVP\LA PLPPHPAS*GSLQWPA*KE APTVCQAEGLLKCRQSGSPGR GGAESE
6230	36598	B	6280	1	1743	
6231	36599	A	6281	1	428	G'TREEHLKRSGREIALPIEACV MLLLETGMKEEGLFRIGAGASK LKKLKAALDCS\ILTWDEFYSD PHAVAGVALKSYLRELPEPLMT FNLYEEWAQVASVQDQGQKT FKDLWRTCQKLPPQNFVNFY LIKFLAKLAQTS DV
6232	36600	A	6282	135	512	LPFRGAGLETCSPPCLSLPPPPW APVRPKPPR*APPPAPRRPVPST TQGS LGPHCFYEL*HSP*RSAAS LLKPARP*AHREERTTP/GRSAL/ TSCNTHREGLQ/PSLRKKETPNT SEHQKEQTPDAPP

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6233	36601	A	6283	698	2233	IQAAMQAAPQFGPSTED*CCPIT SEAPWAIMDAKLR\LKPPSHPL VSPHLNPQVWDTSSPSLATEHA SLTISLKPNHPYPAQSQYSIPQH ALKGSKPVITRLLEHGLLKPIN PYNPILPVQKLDKSYRLVQHL CLIQIVLPIHPMVNPYTLSSI PFTTHYSVLDLKHAFFTIPLYP SQPLFAFTWTDPDTHQAQQITL AVLPQCFIDSPHYFSQAQISSSS VTYLGII\LMKTHIGLGAVEQGV VLVGEARAAQEPMEWVGSG MVGCRSRALPRGKAARREI ERSAVTIVPVLDFNPAFHIIPTT PDHHCISLIHLTFTPFPHISFFP VPHLEHTWFIDGSSTRPNCHSP AKAGYAIVSSTSIIETALPRST TSQQA\KLIAYTDSKCAFHILHH HAVIWEERNFLTMQGASINAF LIKTL\KDILLPKEAGVIHCKGH QKASDPITQDNAYADKVAKKQ LAFQLLSLTAVFLLLIRPLSPTSP LKLPLINLFPHKANDS
6234	36602	A	6284	1	1239	
6235	36603	A	6285	1	477	QRPPHGVFVLGVAGRVHGP ELASHKAGPQLGDVGVCAGQGG QVGPLVLQPVEHIQQLPG/AG HCAHQ*QGSPS*SSLRPERSLQ CRRPQGATATIRSTWWGPRGP VCTAALVPLCWPGWPVQKDEL QAVRSHSALASAMQTCSLAGP GLGSSHARLTA
6236	36604	A	6286	1	1134	
6237	36605	A	6287	673	836	
6238	36606	A	6288	1	225	
6239	36607	A	6289	1	468	
6240	36608	A	6290	495	1637	ESQVLSNVSPHVKV*NMASWE GKDLTVPPQPDTRKGSVLRISK RGRNASCS*DKRKASVCSLSLG NGMSRYKTRLYAPSTEIGKNRL RAGGGTCGQYCFVKH
6241	36609	A	6291	1	507	
6242	36610	A	6292	215	389	
6243	36611	A	6293	1	255	
6244	36612	B	6294	69	1055	

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6245	36613	A	6295	23	1596	IKPQRWGETRAEMLKILKTREP FLLQRIASPRQQWNKAGQRRS WFFERL/NKIDRLLARLIKKKRE KNQIDAIKNDKGDITTDPTIEQT TIREYYKHLYANKLENLEEMD KFLDTYTLPRLNQEELESNRPI TGSEIEAISSLRTKKSPGPDGFT AEFYQRYKEELVLFLLKLFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRLISLMNIDVKILNKIL ANRIQQHIKKLVHHDQVGFIG MPDWFNICKSINIIHHINRTNGK NHMIISIDAEKAFEKIQQCFMLK TLNKLIGIDGMYLKIIRAFDKPT ANVILNGQKLEAFPLKTGTTQG CPLSPLLFKIVLEV LARAIRQEK EIKRIQLGKEEAKLSLFADDMIV YLENPIVSAQNLLQLRSNFSKV LGYKINMQKSQAFLYTKNKQT ESQIMSELPFTIATKRIKYLGIQL TRDVKS LFKENYKPLL SKIKED TNKWKNIPSSWIGRISIAKMAIL PKVIYTFNAIPIKLPMTFFTELEK
6246	36614	A	6296	1	1488	
6247	36615	A	6297	1	1401	
6248	36616	A	6298	2	1256	
6249	36617	B	6299	84	955	

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6250	36618	A	6300	735	2718	RSFPRS RSPFLLLSRYLRHIMV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVHKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQTTIREYYKHL YANKLENLEEMDKFLDTYILPRL NQEEVESLNRPTGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKGRDTTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFIPGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPSPLLFNI VLEVLARAVRQEKEIEGILGK EEVKLSLFADDMIVYLENPIVS AQNLLKLISNFSKVSQYKINIQK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLGILTRDVKDLFK ENYKPLLNEIKEDTNKWKNI PCSWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARKSILSQKNKAGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIMPHIYNYLIF DKPEKNKQWGKDSL FNK*CWE NWLAIWRKLLK
6251	36619	B	6301	1	2907	
6252	36620	A	6302	1	2358	
6253	36621	A	6303	1	1866	
6254	36622	A	6304	1	885	
6255	36623	A	6305	1	1059	MKNNSESFEP LLLIPRQRGSGV DLQQTPTDLQLRVLTVRRKTN KQDIHTKTPTVRHHHQRPKNP WDTFKAVCRGKFIALNAHKRK QERSKIDTLTSQKVEKQEQT QSKASRRQEITKIRGELKEIETQ KTLQKINESRSWFF EKINKIDRL LARLIKKREKNQIDTIKNDKE DITDSTEIQTTIREYYKHL YANKLENLEEMDKFLNIYTL PRLNQEEVESLNRPTGSEIEAIINSLPT KKSPGPDGFTAIFYQSYQEELV PFLKLFQSIEKEGILSNSFYKA NIILIPKGRDTTKKENFRPISLM NIDAKILNKIL/ANRIQQHIKKLI HHDQVGFIPGMQGWFN
6256	36624	A	6306	1	1692	

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6257	36625	B	6307	1	2871	
6258	36626	A	6308	2	2315	
6259	36627	A	6309	1	1210	MMSFHLSVHTAIDGSHSSCS AWCSPIDRDYFEQENNSSSSCC CCCYHCHRKHC GGKGLSFPGE MPLSPGHFNKMMYSVSELMQG SGSGTFIPLPAELSLWLLVTNTK GQRMKNDAEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPTSSEIVAHN SLPTKKSPGPHGFTAIFYQRYK EELVPFLLKLFQSIEKGLPNSF YEASIIIPKPGRDTTKKENFRPI SLMNSDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMISIDAE KAFDKIQPFMLKTLNKLGIK YLGQLTWDVKDLFKENYKPL LKEIKEDTNKWNIPCSWVGKI NIMKMAIPPKATSPLESYKREK
6260	36628	A	6310	1	2745	MEGEMNEMKREGKFREKRIKR NEQSLQEIWVYVVRPNLRIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRYK SRRATPRHIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF

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6261	36629	A	6311	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLKELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQ/DAIKN DKRDITIDPTEIQTITIREYYKHL YANKLENLEEMDKFLDITYTLP RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKL LEVLA RAVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKD L FKE NYKPLLKEIKEDVNWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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6262	36630	A	6312	2	2143	SSDGSWWTGFQWREWRQAGR SVNSWDNPKQEVRRASSKDKSR GSIQEAMRMQSSAKLLCSAWT LAYSIAVRTLSSDSEGQPPLVIH RQTGSGEDLQQTPTDLQLRVLT IRRKTNKQKGHPHQNPISRRQ EITKIRAEKKIETQKPFKKINES RSWFFKINKIDRLLARLIKKKI EKNQIDAINKDKGNITNPTEIQ TTIREYYKHLANKLEHLEEM DKFLDIYTLPRLNQEEVESVNR PITGSEIEAIINSLPTKKSPGPDRF TAELYQRYKEELVPFLKLFQSI EKEGILPNSFYEASILISKPGRD TTKKENFRPISLMNIDAKILNKI LANQIQQHIKKLIHHHQVGFIPG MQGWFNILKSINVIHHINRTKD KNHMIISIEAEKAFDKIQPFML KTLNKLIGIDGYLTLYLKIIIRAIY DKPTANIILNGQKLEAFPFGTGT RQGCPLSPLLFNIVLEALARAIR QEKEIKGIQLGKEDVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SEVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKTLNQKFSYWFRVKNKHYI HQRTPFLKETEFNTIATLYNGA SP/CTAPKSTGTNGHQASGLPRF *RIAFCSALVKSRRKLYQGYLP GQTDREEGVSWCPGGP
6263	36631	A	6313	1	3018	
6264	36632	A	6314	1	2016	
6265	36633	B	6315	1	1215	

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6266	36634	A	6316	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSTHIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRKLNLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKREKNQIEAIKNDKG DITTNPTEITQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPIGTSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLCLKFQSIEKEGILPNSFYE ASINLIPKPRDRTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSQIVPVC*H DCVSRKPHHLSPQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
6267	36635	A	6317	1	1797	
6268	36636	A	6318	2	2063	
6269	36637	A	6319	1	1212	

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6270	36638	A	6320	1	2718	MALFRVGMTTTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEKEIE TQKTLQKINESRSWFFKINKID RPLARLIKKKREKNQTDTIKND KGDITDPTEIQTTIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLKLSQSIEKERILPNSSYE ASILIPKPGRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSCHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWNQKEP/CIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNLIFDKPDK KKEWKGDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
6271	36639	A	6321	1	2307	
6272	36640	A	6322	1	1989	
6273	36641	A	6323	1	3285	
6274	36642	A	6324	3	4732	
6275	36643	B	6325	1	2693	

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6276	36644	A	6326	603	2976	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICTSPSSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSINVIIHMKRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYLKIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRAIQKEIK GFQLGKEEVKLSLFVDEMILSL ENPMVSAKNLLKLISNFSKVSG YKINVQKSQAFLYTSNRQTESQ IMSELPFTIASKRIKYLGIQLTGD VKDFFKENYKPLLNEIKEDTDK WKNIPCSRVRGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKA'VTKTAC HRVGRAQQHSISKWKWYIHDW SQVGPEGTNDARSYPDTTQKW TAAALQPLSRTSLKDSHEGKSS QWAE LRAVHLVLRFAWKEKW PDVQLYTDSWAVASGLAGWS GTWKKHWDWKIGDKEIWGRATP VIAQWAHEQRGHGGRDGDYA
6277	36645	A	6327	3193	6107	SMKTGLEKKMKRNEQSLQEIW DYVKRPNLPLIGVPESDGDNAT KLENTLQDIIQENCPNLRQANI QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGRV THKGKPIRLTAALSAETLQARR DRRPIFNILKEKNFQPRISYPAK LSFVSEGEIEYFTDKQMLRDFL MTRPALKELLKEALNMETTGA PRFIKQVLRELQRDLDTHTITG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADL
6278	36646	A	6328	1	1808	
6279	36647	A	6329	1	4695	

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6280	36648	A	6330	1	2915	MIMGDFNTPLSTLDRSTRQKVN KDTWELNSALHQADLIDIYRTP HPKSTEYTFFLAPHHTYSKIDHI AGNKALLSKCERTETITNCLSDH SAIKLQLRIKKLTQNHSTTWKL NNLLLNDYWVHNEMKAEIKIF FETNKNKDDTTYQNLWDTFKAV CRGKFIALNAHKRKRQERSKTD RTSQLKHLENQEQTTHSKASRRS WFEKINKIHRPLARLIKKKREK NQIDAIKNDKGDITTNPTETIQT REYYKHLTYN
6281	36649	B	6331	1	6730	
6282	36650	A	6332	1	378	
6283	36651	A	6333	3	1700	
6284	36652	A	6334	1	1759	
6285	36653	A	6335	2	409	
6286	36654	A	6336	1	2051	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLYHVLTKNTTVTEQ NRNLLVETIRSITELIWGDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHLDDLHYLND ILIINCEFLNDVLTDLNRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVPLTLSSLWQGSHLSLNQ LQSGLHKCSSHLCGAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVA HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPPAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNK/GKSPEKEEGLS GTQSHPGKAGTFGKEGAERK
6287	36655	A	6337	2	2753	
6288	36656	A	6338	1	577	
6289	36657	A	6339	1	849	

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6290	36658	A	6340	1	1293	
6291	36659	A	6341	1	861	
6292	36660	A	6342	154	6208	RRAPGKIPGQASAF LGRTWSRP CLRTQLCVIVSCLAKAGVQGYL VGSPGGAKRFLFSERTGSFSKL AAMSSWLGGGLGSGLGQSLGQV GGSLASLTGQISNFTKDMLEMEG TEEVEAELPDSRTKEIEAIHAIL RSENERLKKLCTDLEEKHEASE IQIKQQSTSYRNQLQQKEVEISH LKARQIALQDQFLKLQSAAQSV PSGAGVPATTASSSFAYGISHP SAFHDDMDDFGDISSSQEINRL SNEVSRLESE
6293	36661	A	6343	3810	5310	SQGTCPDRPCNVSG*RI SIEEI EAGRIPNPHLG PVEERLALHVL QQQGLVPEHVESRPLYSP LQPD IEQAFPSFGRKSRWIRVIPFRFF LRCHWNTRDVLDDLSLTGEK MSDIYVKGWMIGFEEHKQKTD VHYRSLGGEGNFWRFIFPFDY LPAEQVCTIAKKDAFWRLDKT ESKIPARVVFQIWDNDKFSFDD FLDPYAIVSFLHQSQKTVVVK NLNPTWDQTLIFYEIEIFGEPAT VAEQPPSIVVELYDHD TYGADE FMGRICQPSLERMPRLAWFPL TRGSQPSGELLASFELIQREKPA IHHIPGFESEDTLPYPPQREA NIYMVPQNIKPALQRTAIEILA WGLRNMKSYQLANISSPSLVVE CGGQTVQSCVIRNLRKNPNFDI CTLFMEVMLPREEL YCPPITVK VIDNRQFGRRPVVGQCTIRSLES FLCDPYSAESPSPQGGPDDVSL LSPGEDVLIDIDDK EPLIQNYA
6294	36662	A	6344	1	527	
6295	36663	A	6345	5251	5711	PPQRGPPSSSCYSRSQRSVSRCP SRHRPSAASPRPGRPSGRSGLLA GLRLWAGAGCFQCPCLQRGL FSPEALRPQAPAHKGLFSGSLW PQQRSHQGLRAAATS*DRRAG ALCKWCPRPSGT PRGEHLS*EN ESLPP**RWAHQ TAPQESQTS
6296	36664	A	6346	1	924	
6297	36665	A	6347	1	894	
6298	36666	A	6348	1	525	
6299	36667	A	6349	6	343	
6300	36668	A	6350	1	2693	
6301	36669	A	6351	26	353	
6302	36670	A	6352	1	9182	

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6303	36671	A	6353	1	8655	EAAKDLADIAAFFRSGFRKNDE MKAMDVLPILKEKVAYLSGGR DKRGGPILTFPARSNHDIRQE DLRRLISYLACIPSEEVCKRGFT VIVDMRGSKWDSIKPLLKILQE SFPCCIHVALIHKPDNFWQKQRT NFGSSKFEFETNMVSLEGLTKV VDPSQLTPEFDGCLEYNHEEWI EIRVAFEDYISNATHMLSRLEEL QDILAKKELPDLEGARNMIEE HSQLKKKVIKAPIEDLDLEGQK LLQRIQSSESF
6304	36672	A	6354	1	1338	
6305	36673	C	6355	152	404	
6306	36674	A	6356	137	1278	MDSQPNSTRGQSGRR/MEIKGI QLGKEEVKLSLFADDMIVYLEN AVTSQPKISLS**ATSAKSQDTKS MCKNHKHSYTPITDKQRAKS* VNSHSQLLQRE*NT*ESNL*GT* RTSSRKTTNHCSMK*KRIQTNG RTFHAHG*EESIS*KWPYCPR*F IDSMPPSSYQ*LSSQNWKRL SSSYGTKKEPASPSQS*AKRTRL EAS/LLPDFKLYYKATVTKTAW DMDEAGNHHSQQTITRTKNQT PHVLTHRWELNNENTWTQEGE HHTPGLVVRSPDPEQNFKAVR CLDLPD/PSSSFLAVLTFHFKPA FLQSLR*DKPRS/SPALGTWHKP *KITPKKQ/HQAITKPNTTEYRTA VKPSVVGALPDINSFLKLGGLH RITNGCLLD

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6307	36675	A	6357	1	2569	MRTKTQHTRISWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIEQTTI REYYKHL YANKLKNLEEMDKF LDYTLPLRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLQFSIEKE GILPNSFYEASHILIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKLLIHDQVGFIPGMQ GWFNIRKSINVIQHVNRADKN HMIISIDAEKDFDKIQPFMLKT LNKLGIDGTYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVVEVLASAIRQEKEI KAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFIIASKRIKYLGIQLTRDVKDLF KENYKPLIKEIKEDTNKRKNIPC SRVGRINIVKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DFKLYYKA'VTKTAWYSYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQWGKDSL FNK WGW ENWLAIWRKLKLDPFLTPYTKI NSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTP/TSNG NKRQN*QMGSNETKELLHSCR
6308	36676	A	6358	1702	2252	FLSLFFISLASSLSILLIHIMNSW IPHSPIFTDLNVESSRLCPLGDIM M*IPLTWYLIVTCTHLSREITTV PRGLARLWSFTRICPRTHCKPIP A\VLLRAGCPPSCWWDQDTHS QLPSKRSSYTFFCTVTEYPFLD *WP*NHGTPC*TAPLWSMF/PCS CWYPVTGPGVSCSPSCVQVFSL FISHL*VRTCGVWFFVLAIVC*E *WFPASSMSQAVLVTVAL*YSL KSGSVMPPA\FSFGLGLTWRCR LFFGSIRTLK*IFPIL*RKSLVA* WGWH*IKLRWAVWPFSTRY*F FLPMSM/VMFFHLFVSSFISLSS GL*FSLKRSFMSLVSWIPKYFIL FEAIVNGSSLMIWLSVCLLLLH KNACDFCTLILYPETFLKLLISL RRFWAETMGFSRYTIMSSANR DNLTSSFPN

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6309	36677	A	6359	207	1209	IPRHIHPPKTKPGRS*/TP*IDQ*Q ALKLRQ/CINSLPTKKSPGPDGF TAKFYQSPSLTGKNDKEPEILPY FHADFLVVPGTHQASPVLMLVL GHKSFPHRNSPPSVCMAFFTQ KPPSQSIHNAVNTHTDPPLFLVL LKDRGLLVIWCHESQGDELWH LVLLDSKCCFGSMTHRMEWSG PSAAGLLEFAGGPLQTLFAWVS AVEAAEQRILLNSKCCCLIIIPLE ALSQRGIWPWQGSPPVRPWTTT TLWPVRNQATQQETSLMPCQL EGKEPLALPTKEAEIEGRRTGEI KKVERDSNTNKEELLLDLAFK VSSLFDKLEEVVELLVIGELQL YPSK
6310	36678	A	6360	544	678	AFHVSFGCINVFF*EVSVHML CPLFDGVVFFLVNLFEEFVDSG
6311	36679	A	6361	7	94	VRTSGVWFFVLAIVC*E*WFFA SSMSLIY
6312	36680	A	6362	381	431	ATKQDSVSKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEKEK/GNK ERKK/DKGKARQVQARQIYLLS LHLGRIRKVPNNNKA*SSCP
6313	36681	B	6363	1	603	
6314	36682	A	6364	1	987	
6315	36683	B	6365	1	444	
6316	36684	A	6366	977	1177	RTSISSPVSSSTCSPLVMPTLLPQP TVPWRMWRPCTQ*RNAGTFSP AVAMGLPVEAVICLSV*DSPA
6317	36685	A	6367	1148	1395	
6318	36686	A	6368	33	663	VHVLCGDTDETGNHHSQQTIA RTKNQTPHVLTHRERLSLRRL HSCAYSLHRWLGARHAQKGSR NTKGCGGQGPRTSERGPASGEF SENCTSLGQRGVFSPPRRALL HSPSDG\SVPLGAVDSSP\PASTR RDWSHWAVGKSPEREPAGKV T*TTRQLQPASP*REHPLLNSQH GHCLKISLPLPTVLSPSPPLSLC SNVTFSTRPLT
6319	36687	A	6369	1	1314	
6320	36688	A	6370	120	410	
6321	36689	A	6371	1	492	

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6322	36690	A	6372	3	945	EEVPRSMSSKKKKRKRKRKR EEEEEEEEEEEEEEEEEEEE EERR\EGEGEEEEEEEEEGKEKID PSHLELKMVRNKNTMYEVCLM PIGIKPQVNVGAMQCILVAPYIS PIVGVINFNDQVNSQGGGSKME DGIHFRGKVMLHVGRKRQRVK KGLGYAFISSMKTNEYTKLVPV EWGLAEKIPKNVEATLELGNRR SKKTGGILPLLLWNFELERDEL GYLVEEISKQPSIQQMTWVLLK AFRFIQEAEPKSSNLNPDNVIE KKNPFSEGGFMLAAEICISNEE WNGNVNPQDYGGKWLQGMA EVFTATPSITGLEA
6323	36691	B	6373	1	792	
6324	36692	C	6374	348	884	
6325	36693	A	6375	1	588	
6326	36694	B	6376	1	5339	
6327	36695	B	6377	520	3146	
6328	36696	A	6378	1	2044	
6329	36697	A	6379	1	585	
6330	36698	A	6380	1	2433	
6331	36699	B	6381	53	441	
6332	36700	A	6382	2	425	
6333	36701	A	6383	1386	2569	FLRKHRESGKDEEMTALCSFPG VAGEDELQVIQPEKSVSVAAGE SATLRCAMTSLIPVGPIMWFRG AGAGRELIYNQKEGHFPRVTTV SELTNRNNLDFSISISNITPADAG TYYCVKFRKGSPPDDVEFKSGA GTELSVRAPKPSAPVVSGPAVRA TPEHTVSFTCESHGFSRDLTK WFKNGNELSDFQTNVDPAGDS VSYSIHSTARVVLTRGDVHSQV ICEIAHITLQGDPLRG TANLSEAI RVPPTLEVTSQPI\RAENQANVT WQVSNFYPRGLQLTWLENGNV SRTETASTLIENKDGTYNWMS WLLVNTCAHRDDVVLTCQVEH DGQQAVSKSYALEISAHQKEH GSDITHEPALAPTAPLLVALLG PKLLL VVGVS AIYICWKQKA

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6334	36702	A	6384	1	2453	MEPAGPAPGRLGPVLCLLLAAS CAWSASRQLPAVQVLRGDVTC GSDHVFLLAYIKHLAVAGRRRA LKATVHVHQRTLLRPGGCGSV PGKRAVTLISKCSGQPAFPGA PAGNTNTFLVCSCGFPDLQSSR GPERALCAFIQCLMVRPEEQRE KNWPGPRGRSMARPGWNAKPP VVQAKAFKNWAVLELSTVSAR NLTGSRIPRENTKVILIGTIWVL CFLGSALGVCDPGGTHSHLAM HVVFPGPVGSNNPSIVIIIRPIL QIKSQRSRVGETFPGVSWVAEL ESKSKHTFSQCQALLQPWGRK LSSCSQRTYNLLLVCISMNVI DKHLRKHRGSRVAGEEELQVI QPDKSVLVAAGETATLRCTATS LIPVGPIQWFRGAGPGRELIYNQ KEGHFPRVTTVSDLTKRNNMD FSIRIGNITPADAGTYCVKFRK GSPDDVEFKSGAGTELSVRAKP SAPVVSGPAARATPQHTVSFTC ESHGFSRDLTKWFKNGNELS DFQTNVDPVGESVSYSIHSTA KVVLTREDVNSQSFV*GPTVT LQGDPLRGTANLSETIRVPPTLE VIQQPVRAENQVNVTCQVRKF YPQRLQLTWLENGNVSRTETA STVTENKDGTYNWMWLLVN VSAHRDDVKLTCQVEHDGQPA VSKSHDLKVSHPKEQGSNTA AENTGSNERNIYIVGVVCTLL
6335	36703	A	6385	1	405	
6336	36704	A	6386	91	2926	PACPSRLPFTNTDTHIDTSSPA SRSTRCLCISTHGVLAQSGGSSG GPAVPTVQRGIKMLVLSGCAIIV RGQPRGGPPPERQINLSNIRAGN LARRAAATQPDADTPDEPWA FPAREFLRKKLIGKEVCFTIENK TPQGREYGMIVLGKDTNGENIA ESLVAEGLATRREGMRANNPE QNRLSECEEQAKAAKKGMWSE NGSHTIRDLKYTIENPRHFVD SHHQKPVNAIIEHVRDGSVVRA LLLPDYLLVTV
6337	36705	A	6387	2	448	
6338	36706	A	6388	1	645	
6339	36707	A	6389	1	294	

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6340	36708	A	6390	23	321	RGREHTQGIPGAGKRWH*FKV LLTQ/CW*SEFSVIRQFKAGPGG LDQFRDRSK/RWLRDLRGRLLG SLNASLVLRALFSGNWGLTAN QL*LAVGAKGDPEA
6341	36709	A	6391	1	1599	
6342	36710	A	6392	1	561	
6343	36711	A	6393	1	1833	STLASSEGQGGFWRGPRALILL LLFLGPCHARSHDGKYSREKN QPKPSPKRESGEEFRMEKLNQL WEKAQRQERYPCRRRRRVKQV AAGTPRVFLKTPEMGVFELCRP SGPHYLISNAGVRLDLLNSPVL SIPESLRGKVNDLQNKKELLER KGRGETGLARPMHDLTAAQGG YGCALVHGAQVEGAGAQQWA GTVHATCRGETGTACQEALVT ATACSSCQRGQTRAPQGQHTL ESMGLNCLPQGAASGSDHHCG PRISDLPGSAARTSRWPASSELH LPPVRLAELHADLKIQUERDELA WKKLKL DGLDEDGEKEARLIR NLNGHWRAEDAHQDGGVNK WDIPTVVGVGVAALVAVKL FFLPINIRCVLSESPATLHSLQV ASVLWSLEFLPYGSRSPVVIQET VILAKYGLDGKKDARQVTSNS LSGTQEDGLDDPRLEKLWHKA KTSGKFSGEELDKLWREFLHH KEKVHEYNVLLETLSRTEVHPG PQDGVASTGREHSPMETLFQEE LKHFEAKIEKHNHYQK\QLEIA HEKLRHAESVGDRRSV*SASPR ESTPCLEGRTKGAGLPR*KKHL QD\LSGRI\SRARHKRTLKALGS
6344	36712	A	6394	1	185	DFFDNSAQVTIAGIPCDIRHVSP RKIECTTRAPGK\V*GSPPLSQAI EGFFLKLEMLLRDWN
6345	36713	A	6395	1	1512	
6346	36714	A	6396	117	268	QSLLEYLHLYLHLCYLHLANK QELTLTWYKE*CTFFLPSV*NPF HQNLA
6347	36715	A	6397	1	500	

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6348	36716	A	6398	1301	2565	TLLTILPFYLFKNRTSLTGYLRI WILSTKLFCLSTLWLAPTLFLIP/ LPDPHDCISLIHLAFTPFHTSFF PIPHPDHTWFIDGSSTWPNRHSP AKVGYAIVVSSTSILEATALPPS TTSQQAELIALTRALALAKGLH VNIYTDSKYAFHILHHNAVIWA ERGFSTQRSSIIIASLIKTLKA ALLPKEAGVIHCKGHQKASDPI AQGNAYADKTKFLDLAFPPLR LSFTCQITQAVSQALGIQWNLH TPYRPQSSGKDWTVFLPLALHR IRARPREATGYSPFELLYGRFTL LSPNLVPDTSPLGDYLPVLWQA RQEIHQANLLSTPDSQLYED TLAGRSVLKLNLTPTQLQPRWT GPYLVYISTPTAVRLQDPPHWV HRSRIKLCPSDNQPNLSSSSWKS QVLPTTSLKVTLISEEQ
6349	36717	A	6399	581	2517	LFLGYSHTSLLPFPVQSLHLHLL PLYLHTLTHKYGIPLPPWRPIM HPLPSH*NLITLTLLNANIPSCST L*KD*SLLSLTCYSMAF*/QPINS PYNPILSVQKPKPYSSFRYVY SLFVESPTITIVPGPDFNLASHIIP DTTPDPYDCISLIHLTFTPFPHVS FFPVPHPFHTWFIDGSSTRPNCH TPAKAGYAIVSSTSIIEVTTLPHS TTSQQAELIALTRTLTAKGLC VNIYTDPISTTMLFYGLKCFLT MQGSSIINASLIKTLKAAALLPK EAGVIHCKGPQKASDPIAQDNT YADKVAKKAASVPTSIPHSSFS PSHLVTPTYSPPTETSTYQSLPTQ GKWFLDQGKYLLPASQAHSILS SFCNLFHVGKPLARLSELLISF PSWKSILKEITSQCSICYSATPQ GLFRPPFPKHQAWGFVPTQD WQIDFTHMPQVGKLYLLVW VDTFTGWVEAFPTGSEKATVVI SSLLSDVIPRFCLPTSIQSNNGLA MISQITQAVSQALGIQWKLCTP YHPQSSGKVKWANGLLKTHLT KLSLQLKKDWTVLLPLALLRIR ACLRNATGYSPFELLYRCSFLL GPSLIPDTRPTWTAPPKTWHPY YLLSSTPIHRSQQLIHALLLFTL PVYTVSPSHHS

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6350	36718	A	6400	281	1095	DCSKRNRHSQVIAEGNICKIQE VRRKEDTQGGEKDPESLLLPPL LAPGPT/YSTYYNISVAKAELL NKLKDQPEMAEIGLGEEVDH ELAQQKIQLIESISRKLSVLREA QRGLLEDINANSALGEEVEANL KAVCKSNEFEKYHLFVGDLDK VVNLLLSLGSRLARVENALNSI DSEANQEKLVLIEKKQQLTGQL ADAKELKEHVDREKL VFGMV SRYLPQDQLQDYQHFKMMSA LIEQRELEEKIKLGEEQLKCLR ESLLGPSNF
6351	36719	A	6401	1	972	
6352	36720	A	6402	514	736	
6353	36721	B	6403	446	991	
6354	36722	A	6404	521	903	NIKPASQISPG*I*VHSSPTQRLS APPSAA/GRLLSLSLPAGLVGGD TARCIPAGRLRPLCSWLDPGKL LHLSLKSKGSGGRSGAGTLQEG NQSVCIAEKPPLKPAIQTQSG MNVLCRAYSWVIDWD
6355	36723	A	6405	11	545	
6356	36724	A	6406	3	2920	
6357	36725	A	6407	1	2388	
6358	36726	A	6408	275	479	
6359	36727	A	6409	1	3810	
6360	36728	A	6410	7	1047	
6361	36729	A	6411	1	705	
6362	36730	C	6412	304	638	
6363	36731	A	6413	99	759	WAYLDFWM*HIPHLGVLL/SAH LLSDLNSCQF*MGSRTGEGSATG PGSCSAALPLGPYPADPMVLE VSMADRDASPHDPLAKFLFPVP MTLHSALLEVLVPEGGTLPPGD TTTIPLNW/IVKIAT*TLWVPPTF KFTGCRLNTMWKLPRLGASTL *SNSLRCTLTSFSDWSGWDAG HQVIRPHGFAGYNTCGCFHRL MLSACGFSRQMVQAVNGSTTL GSGG
6364	36732	A	6414	1	685	
6365	36733	A	6415	1	1359	
6366	36734	A	6416	3	7714	
6367	36735	A	6417	1	723	
6368	36736	A	6418	1	528	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6369	36737	A	6419	38	530	HSPRRSAASLLSQRDHEPHQKE ETPNTSEHQKEKTPDTPPLRTV TLTVRVHGFIEVSETKNPPIPD TKLRG/ERLQGFGLAGFRSE/GC RPSP*VLQLIKAVWTQRPLGGR WDWAPWSRRWCSSGRLRPHR NQWSGWEAQAWGLQVPEPCP AGRQLRPGEKSSTAP
6370	36738	A	6420	1	649	
6371	36739	A	6421	1	987	
6372	36740	A	6422	1	924	
6373	36741	A	6423	1	435	
6374	36742	A	6424	1	147	
6375	36743	A	6425	1	1107	
6376	36744	A	6426	3	913	
6377	36745	A	6427	1	159	
6378	36746	A	6428	313	1083	
6379	36747	A	6429	1	1245	MAQELRDTCTSFSSRFQVEER VMVIEDQINEMKQEEKFREKR VKRNKQSLQEIWVYVVRPNLR LIGVPEKNLEETDKFLDTYTLPR LNQEEVESLNRPTDSEIEAINS LPTKKSSGPDGFTAIFYQRYKE ELP/RQRHNKKREF*TNIPDEHR CKSPQ*NTGKPNPAAHQAYPP *SSGLHPWDARLVQHTQINKRN PAYKQNGGQKPHDYLSRCRKG L*QNSAALHAKNSQ*IRY*WDI SQNNKSYL*QTHSQYHTEWAK AGSIFENWHKRGMPSLTPIQ HSVSSGQGNQAGERNKGYSI RKRGSQIVPVYR*HNCISRKPH HLSPKSP*AGKQ/SSAKSQD/DKI NVQKSQAFLHTNNRQTESQIMS E/APIHNCYKENKISRNPYKGC EGPLQGELOTTAQRSKKGHKQI
6380	36748	A	6430	39	314	KSECLIYTKGSQRLASNGTKLD GE*L**VDRIRLQKIGNDKLLPA KGGCSNPSQRS*KPRKKIRQMA N*NKQHRGDLK*PDGAENHGT RTT
6381	36749	A	6431	213	843	VDRSRLQKVSNNKLL*AKGEC NPLQGS*KP*KKIRRMAN*NKH CREDLK*PDGVENNGTRTS*FM HKLQ*PI*SSGRKGISD*R*N*N KIHQG*NEGKSVKGSQRERSSY PQRKAHQTNLSRLSRNPTSQKK VGANIQHS*RKEFSTQNFISST KLHK*RRNKIFYRQADAERFCH HQACVTRAPEGSTKHGKKQPV PAPAKTGQIV

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6382	36750	A	6432	1	2112	MRAFVVLMDVSKLPSEGGPG LRSNQQHMRMFLTSVDRGSVS LLADAVAAATPQGTSQPRGPS NLAADLRVAEESGMENLFLK MSFDSIRPAQDGQCTPEISMVTP SPGWSVHTGDLGDHPLPRMVS AHRRSRWSPPPQDGQCTPEISM VIPSPGCSVHTGDLGDHPLPRM LSAHRRSRWSPPPQDAQCTPEIS MVTSPGWSVHTGDLGDHPLP RMVSAHRRSRWSPPPQDAQCT PEISMVTSPGCSVHTG
6383	36751	A	6433	1	648	
6384	36752	A	6434	1	1539	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE/ SAN*NQQCREDLK*PEAEIHGT RTS*HMHKLO*PI*SSGRKGVSD *GSNQ*NK*WGEWNQVGKHS GYYPGELPQPSKAGQHSNSGNT ENTTKILLEKSNPKTHNCQIHQ G*NEGKSVKGSQRERTREAR NKFKS*QKARYN*DQCRTERD RNTENPSKN**IQEPVF*KDQQN **NASKTNKEEKREESNRRNKK **KNRTVKPHVSFTLLPALSHVS EKNEAESMNSLIPPPNLHTPAQ APFPLPTEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIQEIRR TPQRYSSRKATPRHIVRFTKVE MKEKVLRAAREKGLERQEQTN SKASRRQDITKISAELEKETQK TLQKINEFRSRFFKKINKIDKTL ARLIKKKREKNQTDIAKNDKR DITDPTEIQTTIREYYKHYLAN KLENLEEMDKFLDTYTLPRLNQ EEAESLNRTITGSEIAIINSLPT
6385	36753	B	6435	137	586	
6386	36754	A	6436	129	506	
6387	36755	A	6437	1	237	
6388	36756	A	6438	182	1034	

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6389	36757	A	6439	203	650	SAIVCGSPLRLRMQAVSSRINSA HSRGAIYSQASSAACPSVSI AF LRR*IEANVS/WIRTLSTLCTPK CGPGFKHRIVLCKSSDLSKTFPA AQCPEESKPPVRIRCSLGRCP PP RWVTGDWGG/CDSRDPRPGRR RRDFCRNGRAGAGH
6390	36758	A	6440	207	426	AECTRCAIPK/HSCYPVLLIVVS P*KKQ\NCSLGELSCWRRESCRS SWSNKALPSLTRCLRGFVCGLS CYKGSS
6391	36759	A	6441	524	783	TAVLAARISNQWILSCWS/AVG CTPKCGPGFKHRIVLCKSSDLS KTFPAAQCPEESKPPVRIRCSLG RCPPPRWVTGDWQQLSPTREK
6392	36760	A	6442	1	1524	
6393	36761	A	6443	1	8738	
6394	36762	A	6444	1	642	
6395	36763	A	6445	1	549	
6396	36764	A	6446	8	434	
6397	36765	A	6447	1	2922	
6398	36766	A	6448	18	1158	FLDFDCPYGSAHITGLRFWLPW YRKRQRYWGSHGNCMPPPSLR VPERCPSHTEPRNLTGA*ELLLL GLSEDPQLPILAGLSLSMYLVT VLRNLLISLAVSSDSHLHTPMC FFLSNLCWADIGFTSAMVPKMI VDMQSHSRVISYAGCLTQMSLF AIFGGMEE\NMLLSVMAYDWF VAICHPLHYPVIMNPHLGVFLD LGAFFLSLLDSQLHSWIVLQFTF FKNVEISNFV*DPSQLNLACSD SVINSIFIYLDSIMFGFLPISGILW SYANNVPSILRISSSDRKS KAFS TCRSHLAVVCLFYGTGIGVYLT SAVAPPLRNGVVASVTYAVVT PMLNPFIYSQRNRDIQSALRRLR SRTVESHDLLHPFSCVGKKGQA
6399	36767	A	6449	2	1535	
6400	36768	A	6450	1	635	
6401	36769	A	6451	222	1040	
6402	36770	A	6452	2	1135	
6403	36771	A	6453	1	576	

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6404	36772	A	6454	2	694	QCGGIQRSHGWSQEASDSVW QLQSMWMLDKLTGVFAPRPST GPHKLR\ECLSRIFLRNRLKYA LTGDEVKK\CMQRFIK\DGKV RT\DTYPVG\FMDV\SIDKTGR EFPVLIYDTKG/RAFAVHRITP\E EAQVPSCAKVRRDLCGAQKGIP HLVTH\DAITPLPRSPSSKVND\ TIQ\LEDWARFT*FSSKFDNW *TCCMGDWEGA*P*GRNWVLI HQQRRRAPWDLF
6405	36773	A	6455	1	243	
6406	36774	A	6456	3	766	
6407	36775	A	6457	1	741	
6408	36776	B	6458	500	8643	
6409	36777	A	6459	1	7863	MKPRTLTVRVTALKVARLESV PSDVQMCSEFLPSDSAAQLASP SGSRTGAAGGAAYQSCAVLPH SSALWVVDGTRCRGAGGSAHQ GGSATQEPTERVEGSGMAGCR SRVLPHWKAANVLGMSVESAP AVEEEKGEELEQKEKEKEEDTS GNTTHSLGAEDTASSQLGFGVL ELSQSQDVEENTVPYEVDKEQL QSVTTNSGYTRLSVDANTAIK HEEQSNEDIPIAEQSSKDIPVTA QPSKDVHVVKQNPPPA
6410	36778	A	6460	2	669	ERRRRKLTIPCPPHPAPPTGGQ ACRENAEGIL*AANTSEPGKDA EK*KIKV*LAP/CSHSGSSLQSDP HFGCSLGPS/DPALGLSGCILPPC SGSYLAPAPNSRIPKPLKPW/H /ESYLPSAVRPHGTQAPGLWPE RGL*PAGFLLRPEPVRAASER/Q EAVSPER*VPRPPKAQQLHGQS PDPSSLCTALRQDHTHWLDARS VYPDWRGQPWPPLHQDCGHG GWR
6411	36779	B	6461	241	369	
6412	36780	A	6462	1	510	
6413	36781	B	6463	1	630	
6414	36782	A	6464	229	561	SCRGYSRILLFLHKSSWCSQVIS IFRYNIICSLRPSWKWRLPVY MNWL*YHWFQYHSSINFISFR SMWFIIINFKRSPAFILSGWSIS IARWQIFVFFTTFGSRTKV

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6415	36783	A	6465	1271	1710	TEGLGHRSETPGGAALDALTG ERPRVACFPAARGRLRPRRL MIGPFETGGGQRLTLRPRRR QRRRP/WQGLERPHVRNWGIEL ETLRDAFRPQPSVWRTARGEA GKRKGRLVECLGSQRKVLEGV LLYAVTRGSFPNLFTRPD
6416	36784	B	6466	1	772	
6417	36785	A	6467	1	1272	
6418	36786	A	6468	3	236	
6419	36787	C	6469	1	457	
6420	36788	B	6470	148	324	
6421	36789	A	6471	1	1407	
6422	36790	A	6472	1	651	
6423	36791	A	6473	619	835	
6424	36792	A	6474	52	535	
6425	36793	A	6475	319	647	LCRRIMYFCVMKNWMQSLW KLCTNKR*RIDKPTLHQVVVRK *LTPLGMKNQVDSLELLETRSL KKDPVELGSKSLRRCCCQTEPV NLLPHVSIGTLKI*SRILRLQRP
6426	36794	A	6476	39	515	
6427	36795	B	6477	1	807	
6428	36796	A	6478	3	247	GANICCW*GLQE/VFHSW*KTQ EPSWLHLVDPTTGLQVELPASP APFARIPQPLGGRWDWAPWSR GWCSSGRLGQHRSPWSG
6429	36797	A	6479	27	363	
6430	36798	B	6480	1132	1268	
6431	36799	A	6481	1628	2008	
6432	36800	A	6482	953	1087	
6433	36801	A	6483	2	443	QLAGRCGGRGMSGNRGCWGA CGPAGVPGG/CWAWCALHSEE PASPALRSISRRALAAFPGRAR DLQPAMPEPPTPSVGSCAAQAS PTSAAPCSMAPSPIDHPRAEECV ARRGTGRHDELIVALPFMMIPW HSSIQPFTIHPFNWNFG
6434	36802	C	6484	175	423	
6435	36803	B	6485	122	608	
6436	36804	A	6486	644	1149	KTMHWKAPLMSWHMHRASSQ KQTRTGTQT/MEAQLQQLQRY QEALLQVLRKGEKKAFNMGNI SEVLQRADESCSQFYERLYEAF QLCSPFDPEATENQCMNAVVF VGQTQGDIRKRLQKLECFMG NVTQVLEVATKVYTNCEEETQ GKGQFAGGSTYKGKGECPTK
6437	36805	A	6487	1	2847	
6438	36806	B	6488	329	742	
6439	36807	A	6489	1	1035	

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6440	36808	A	6490	13	630	INPPPPFRPEPPSSSNSPKMTDH KGERGEATRYMFSRPF\RK\HG VVPLGPHICRI\YRKGDIVD\IKG MGYCSKKGIAPTKCY\HGQNLE GVLPMLPQHACWPFVVNQPV GQSFFPRELMCRIEHI*ALLRAR DKLPETVLKENDSEKERSPNEK GTWGSNLKRHPGSTPEEAHFV RTQWGRSLELAGTLFPMNFMG IIGVKEIK
6441	36809	A	6491	1	1020	
6442	36810	A	6492	1	330	
6443	36811	C	6493	250	372	
6444	36812	A	6494	1	345	
6445	36813	A	6495	2	335	TVRAYNVPQHAVGIVVNRQVK GKIPAKRINVGIKHFHSTS*EN FLKRMKENDQKKKEAKEKVT WIQLKHQSAPPRE/AQCERTNG KEPELLEPLPYEFMHNTYIHIYV CVH
6446	36814	A	6496	2	490	
6447	36815	A	6497	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQ/RKAPGKNLVYISLVLRA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
6448	36816	A	6498	54	553	
6449	36817	A	6499	131	803	TMFCQTGSSVRRVGPWPWAEN RTAMLRPCGGTFARKTRLSRLG NSPKMNEQQRGKRRGTPIIMFS KGLLRKHGVVPLAHIFMR\YK \KGDIVRHPRGMGYLVPKRELP PQSCYPWPKPGRSLTNVTPAML VGHLL*NKQV*GQRFLPKRNL MWRI*APFRHFLRSPRLASLKT CGRENGSRKKERKPKGGKVTW GFQLKRRHLGFPPQEEATFLLK EPIGGREP
6450	36818	A	6500	1	489	

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6451	36819	A	6501	29	2028	ENEEEGEKMASTDYSTYSQAA AQQGYSA\YTAQPTQGYAQTT QQAYGQQSYGTYGQPTDVSYT QAQTTATYGGQTAYATSYGQPP TGYTTPTAPQAY\SQPVQG\YGT GAYDTTATVT\TTQASYAAQS AYGTQPAYPAYGQPPAATCPT RTED*\NKPTETSQPQSSTGGYN QPSLGYGQSNYSYPQVPGSYP MQPVTAPPSYPPTSYSSTQPTS DQSSYSQQNTYGGPSSYGGQSS YGGQSSYGGQPPTSYPQTGSY SQAPSQYSQQSSSYGGQSSFRQ DHPSSMGVYGQESGGFSGPGE NRSMSGPDNRGRGRGGFDRGG MSRGGRRGGRRGGMGSAGERG GFNKPGGPMDEGPDLDLGPPV DPDESDNSAIYVQGLNDSVTL DDLADFFKQCGVVKMNKRTG QPMIHIYLDKETGKPKGDATVS YEDPPTAKAAVEWFDGKDFQG SKLKVSLARKKPPMNSMRGGL PPREGRGMPPPLRGGPGGPGGP GGPMGRMGGRGGDRGGFPFRG PRGSRGNPSGGGNVQHRAGDW QCPNPGCGNQNFARWTECNQC KAPKPEGFLPPFPFPPGGDRGRG GPGGMRGGRGGLMDRGGPGG MFRGGRGGDRGGFRGGRGMD RGGFGGRRGGPGGPPGPLME QMGGRRGGRGGPGKMDKGEH
6452	36820	A	6502	1	693	
6453	36821	A	6503	3	657	
6454	36822	A	6504	1	434	
6455	36823	A	6505	208	443	

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6456	36824	A	6506	3	2650	LLPAFLLLCSDSHFLQFCSQFAP RKTQGGSGSVNNIQANIIAKKSN NHLMKKNDQKFKDLPQMAGH PIHHQAQGGPPGAKNPQEQRRP MGQTTLPAEQEESRVKCKNCG AFGHSARNKTCPIKRWSGALPL QVLGSHKEKENLKPAKAQLPFT TPGPFTTNDREKERSPSTMNPS EMQRKASPRRWKHHNQTPSIH KVNKMVMSEEQMKLPSTKKA EPPTWAQLKKLTQLPKSLEN\ TKVTQTPENTLLAALMIVST/A GAAAANYTYWAYVFPPLIRA VTWMDNPIEVVNNSAWVPGP TDDRCPDKPEEEGMMINISTGY RYPPICLGRAPACLMPAIQNW VEVPTVGTTSRFTYHTGLLTFR DVAIEFSQEEWKCLDPALEDSY TRRKANSCGKPYKCNECGKAF TQNSNLTSHRRIHSGEKPYKCS ECGKTFTVRSNLTIHQVIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGH SNLTTHQLIHTGEKPFKCNECG KLFTQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAHQTIHT GEKPYKCNECGKVFRVGRGVSI GTTCLLSVFQVITVSSRKSASP ENRATQSILAPPTSRGSGPGP ASVLRRLAQTRKRMAWTESCT AACAFPSCLVLLYRGRGVPTDL QVPAPLFSTQSKLKRPGSRTKSS
6457	36825	A	6507	54	360	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSSEED
6458	36826	A	6508	525	3656	SSTMNPSEMQRKAPRRRRHR NRAPLTHKMNMVMTSEEQMK LPSTKKAEPPTWAQLKKLTQLA TKYLEN\TKVTQTPENTLLAAL MIVSMVSLPMPAGAAAANYT YWAYVFPPLIRAVTWMDNPIE VYVNNSAWVPGPTDDHCP\AK PEEEGMMINISTGYRYPPICLGR APACLMPAIQNWLEVPVGT TSRFTYHTIDLMTEKWVVLASV EVLLRFPLKPGEDPTARYVSNK KCQPSVDWPTTISRGRGY
6459	36827	A	6509	1	246	
6460	36828	A	6510	1	246	

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6461	36829	A	6511	1	279	
6462	36830	A	6512	1	363	
6463	36831	C	6513	109	245	
6464	36832	A	6514	2	429	LMTFCWDTPRQSGVPRERMPH TGTWRTVGIRCPKKLRSANSS MMRGKVQPFPR/DIQA YGAAPF EDLQVDFREMPKCGGNKYVLV LGRTYSGWVEAYPTRTEKTRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAK
6465	36833	C	6515	31	895	
6466	36834	A	6516	2	4735	
6467	36835	A	6517	263	418	
6468	36836	A	6518	120	295	YDPLPTWILGKISQRGAEEPAQ HPGCQL*LPPP/SPRPTSSSPSCA GLTSVSPRPFPR
6469	36837	A	6519	1	1758	MKIRRRFPSSLQLSADLQVPVR KAPRQGVSQEKRTKPSLELMIS GTISQEDIRNNVTRGCTPPAIQR VISSPLLAIRNNVTEGVYTPCD TGGRVHLPVILLISRDGGHDIS FNIAVDVHSPCDTDPNIQGVY DMTPNIAMNVQPPGTISQKRCT LPAILGLISYASSVNIRSNITGWL YIDRYVGSHVILYPLGIRMGVT GEMKGERRRGLHAATKWLEE HAPADYQNPQEYGRITQLPGTQ PQLDPHEREDMQRLNRDREAL LEGFKRGAQKATNVNKVSEVI QGKEESPAQFHQRLCEACAKQ VLVNGDAVSREEKRKENERQA RRNADLLVSCSNQSGPPKEARE ELWTKDYRPGQDLRLLSQATL TFHPTVPSPTLLGLLPAEDSWF TCLDLKDAFFPIRSAPESQKLFA FQWEDPESALAKTVRQRCVSC RQHHA\GKVQPFPR/DIQA YGA AAFEDLQVDFTEMPECGGNKY LPVLGRTYSGWVETYPTRAEK AREVTRVLLRDLIPRLELPFRIG SDNGPAFVADLLQKTATVLGIT RKLHAASRPQSSGKGIQNNRTG GVYTPCDIESHVILFRSGY
6470	36838	A	6520	1111	1342	MFVPHIGFQNTAALCLRLGLV FP*PVGFPAAGSCLLI*WNRHWH VPDFSCVTTPQEWCGGVSDVC CGHPHAEPFHLQ

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6471	36839	A	6521	1	1144	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPQLEI ASQVFVNRDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRALAATALLVQEANKLTLG QKLNKASRAVVTLMNTKGHH WLTNATLTDYQTLLCENPRITIE VCNTLHPATLLPVSKSPVKPGC VEVLDSIDSSRPDLWDQPWASV DWELYLDGSSFFNPQGEVEG\S RGDTSELPPCWVCGIPALTQRL EKQHLPPSGHQGSLKHLIWDLL LLTKKRTFSSMI
6472	36840	A	6522	1	554	
6473	36841	B	6523	63	620	
6474	36842	A	6524	1	796	SRTKNYQPVQDLRLHQAKL FHPTVNPSTLLGFPPAEDSWFT CLDLKDAFFPIRLAPERQKLFAF QWEDPESGWPPCWRALAATAL LVQEANKLTLGQKLNKASRA VVTLMNTKGHHWLTNATLTD YQTLLCENPRITIEVCNTLHPAT LLPVSKSPVKPGCVEVLDSIDSS RPDLWDQPWASVDWELYLDG SSFFNPQGEVEG\SRGDTSELPP CWVCGIPALTQRLKQHLPPSG HQGSLKHLIWDLLLLTKKRTFS
6475	36843	A	6525	3	2640	
6476	36844	A	6526	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQ\PSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVDPPSSAMM/SR RAHRSRGPDRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
6477	36845	A	6527	1	1860	
6478	36846	A	6528	1	1458	
6479	36847	B	6529	1	1503	

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6480	36848	A	6530	3	515	TISQKRCTLPAILGLISYASSVNI RSNITGWLYIDRYVGSHVILYP LGIRMGVTGEMKGERRRGLHA ATKWLEEHAPADYQNPQEYGR TQLPGTQPQLDPHEREDMQRL NRDREALLEGFKRGAQKATNV NKVSEVIQGKEESPAQFHQRLC EAYRMYTPLDHDSPENQRMH MALVRQSAEDMRRLQKQAG LAGMNPSQLLEIASQVFVNRDA VSPKENSKEGGQARRHDDL SPVEPDCVEVLDSIHSSRPDLRD QPWPSGDW/RTICGWEQLLQPP RRERCRCVCDNPGH/WLLKPHR CPRPLQARKLNSLLSLGP*NSTR DCVRPIVCILPLITIALKISA
6481	36849	B	6531	96	2524	
6482	36850	B	6532	61	2025	
6483	36851	A	6533	674	2913	
6484	36852	B	6534	120	1849	
6485	36853	A	6535	1	426	
6486	36854	A	6536	2	475	
6487	36855	A	6537	1	501	
6488	36856	A	6538	15	593	SMWWNSAREPCPWRIVDDCGG AFTMGVIGGGVFQAIKGFARNAP VCRLLEAPLFIYSCSRVSPTV NVSSERAESRPTLFMAVSLHMA WCLAHIGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWSITSGA\LTGA VL\AARSAPLAM\VGSAMMGGI LL\ALIEGVSILL/TR*TATV
6489	36857	A	6539	2	557	RRFRASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLR\GKEDPWSITSGA\LTG AVL\AAR\SGPLAMGGLQQ*WG GILFAPHLRAFGILLTRYTAQ\Q FRNAPPFLEDPSQ\LPPKDGTPA \TGYP\SYQQYH
6490	36858	A	6540	223	2274	

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6491	36859	A	6541	2795	3762	FLHFHLRNAVPHQQWNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWDYVVKRPNLRLIGVPES DGENGTKLENTI.QHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPFIENILKENNFQ PRISYPAKLSFISEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6492	36860	A	6542	245	1293	TGAVPIRPSWQRWGKNRTEKL ETLKRRAPLLLQRNAVPHQQQ NKAGWRMILTS*EKKASDDQIT LSYGRFTKPK/DKEVENFEKNL EECITRITNTEKCLKELMELKTK APELREECRSLRSRCDQLEERV SAMEDEMNEMKREGKFREKRI KRNEQSLQEIWDYVVKRPNLHLI GVPESDVENGTKLENTLQDIIQ ENFPNLARQANVQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTLKGKPIR LTADLSAETLQARREWGPFIENIL KEKNFQPRISYPAKLSFISEGEIK YFIDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
6493	36861	C	6543	116	283	
6494	36862	A	6544	51	281	KSQNQLLSSKGEYADGQQDQV SIPAPSPYTLSGPQTQSCPVRPE LGL*GASSAVQAPAVRYLTRFL LFVMSNLHSP
6495	36863	B	6545	1	897	
6496	36864	B	6546	91	8030	
6497	36865	A	6547	126	362	

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6498	36866	A	6548	936	2064	ERADCLFKRKTTNNQKGHLHRK PICTSPSSKTKSR*NHKDGEKTE QKNWKL*NAERLSSS/IRNAV HQQQNKAGWRMILTS*EKKAS DDQITLSYGRTFKPK/DKEVENF EKNLEECITRITNTEKCLKELME LKTARELHEECRLSRCDQL EERVSAMEDEMNMKREGKFR EKRIKRNEQSLQEIWDYVKRPN LRLIGVPESDVENGTKLENTLQ DIIQENFPNLRQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MKEKMLRAAREKGQVTLKGK PIRLTADLSAETLQARREWGPFI NILKEKNFQPKISYPAKLSFISEG EIKYFIDKQMLRDFVTTRPALK ELLKEELNMERNNRYQPLQNH
6499	36867	A	6549	1	767	MAGAPPPASLPPCSLILDCASN QRDSVGVGPSEPGVGYSLVVR RFLSRSEKRNIRVGVTFRSSEM NPVPQMEMQKSPSSASLTGA VDRSCSYSAILAPPLGFCFYPLY ENSTLQSAKKRDAELANGALGI IELNNDYTLKKVMKPLITSNTV TDEIERANVFKMNGKWYLFDT SRGSKMTIDGINSNDIYMLGY/D IKLFNRPLQAAEQNRACAANGS *SKRCDIHLLSLRSAASQRQOC GYHKLHDKQRLLRG
6500	36868	B	6550	50	327	
6501	36869	A	6551	333	1301	FLHFHLRNAVPHQQWNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTARELR EECRSLRSRCDQLEERISVMED EMNMKREGKFRKRIKRNEQ SLQEIWDYVKRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPFIKILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6502	36870	A	6552	352	2304	
6503	36871	A	6553	1	1617	

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6504	36872	A	6554	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAFQPGQQSETVSEK KKKTRKKRKKRKKRKKKKKK KKKKKKKKKKKKKKKKKKKK SE*DRLGKKEEDEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEI
6505	36873	A	6555	5	156	RKKGGG/EREEEGEGEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH
6506	36874	A	6556	1	279	
6507	36875	A	6557	3	120	TEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEEEE
6508	36876	A	6558	3	123	
6509	36877	A	6559	239	432	CLWLFQEEEEEEEEEEED*EE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHVRGI
6510	36878	A	6560	1	588	
6511	36879	A	6561	1	204	
6512	36880	A	6562	75	234	
6513	36881	B	6563	100	2510	
6514	36882	A	6564	47	4976	
6515	36883	A	6565	3	4755	SCRCRRRRRGAPAMAQILPVR FQEHFQLQNLGINPANIGFSTLT MESDKFICIREKVGEQAQVTIID MSDPMAPIRRPISAESAIMNPAS KVIALKAGKTLQIFNIEMKSKM KAHTMAEEVIFWKWVSVNTV ALVTETA VYHWSMEGDSQPM KMFDRTSLVGCQVIHYRTDE YQKWLLLVGISAQQRNVVGA MQLYSVDRKVSQPIEGHAAAF AEFKMEGNAKPATLFCFAVRN PTGGKLHIIIEVGQPAAGNQ
6516	36884	B	6566	47	482	
6517	36885	A	6567	1	555	MNARPHKVD/GRVVEPKRAV* EDSQRPAFVAGIKEDTEEHHLR DYFQQYGKMEVIEIMTDRGSG KKRGFAFVTFDNHDSVDKTVV QKYHTANDHNCEGRKALSKQE MASASSSQRGHSSSGNFRGGHG GGFGGNDIFGYGENFSGHGGFS GSCGGGGYGSSGGGYNEFGND GSNTGGGGSYNDFGN
6518	36886	A	6568	1	645	

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6519	36887	A	6569	2	944	GRGLRKLFIGGLSF*FIDESLKS QVGEWGTLTDCVVMRDPNTK RSRGFGFVTYAT\VEEVDAAMN ARPHKVDGRVVEPKRAVSRED SQRPGAH/TLVKKIFVGGIKED TEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFA\FVTFDDHDSV DKIVIQKYHTVNGHNCEVRKA LSKQEMASASSSQRGRSGSGNF GGGRGGGFGGNDNFGRGGNFS GRGGFGGSRGGGGYGGSGDGY NGFGNDGSNFGGGGSYNDFGN YNNQASNFGPMKGGNFGGRSS GPYG\GGGQYF\AKPRNQGGY GGSSSSSYSGSRRF
6520	36888	A	6570	1	1512	
6521	36889	A	6571	2864	3677	RCQLDHLPCHLCCCCHR/CIPSL RDPQQAPGSTRLSRAPHIESRV GRKPPEEPANPTMNSLTLRDKQ /HDASTC/DWKRAL*VPESGLPR ALLKYIRCPNMSSAQKPRELSK RRN*K*PCVKRTPFRPT*E/DLP YSGKKTGVKGLICPVPGTAVK APQRPPGPQQPHAPQSASETA WFPVADRRVFSENPGWTAAKT LGTLSGPCQAGAGVGRQDGD GQELTSQEKPWVGRKIPEHAV ADKGYRQCCGAGEARGGPVF WAAAPRTSWQQASYT
6522	36890	A	6572	1	666	
6523	36891	A	6573	2926	3304	EYSLGHRHYNWKC*ALGQKDQ VTFATKFAPTSHRTRKQPELWR /QDPGSYGEKQPAWCSVPPGRF SGGLVGLGFLDGGIVVQPLRRP CCQDCVCGFPTLRSSSTKTSTEL GPSFLPCERQGKETISVT
6524	36892	A	6574	1	665	

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6525	36893	A	6575	3	1121	SSTFPRMPWRLVTSWTAYIPEL EGSTSDPDSPAQAQKGEKPVKL GNSLWGSHTPEVPRPGTGPRPL SFVHRLPTMDPHKVNALRAFV KMCKQDLSVLHTKEMHFLRE WVESMGGKLSPATQKVKSEEN TKEEKPDSSKKVEEDLKADEPSS EESNLLIDNEDVIEPDPAQEM GDENAEITEEMMDQANHKKVA AIEALNDGELQKAIDLFTDAIKL NPQLAILYAKRASVFIKLQKPN AAIRDCDRAVEIY\SAQPYKWR/ GKYEQKREEREIKERIERVKKA REEQERAQREEEARGQSVAQY GSFPDGLPGGMLEMRGGMPGK PGITGLNEIFSDPEVLAQVQDPK VMV/AFFQDVAQNPNMSQYQ GNPKVM
6526	36894	A	6576	3	1351	PEAGGERERERAQREEDSTROS RAQYGSFTGGFPGMPGNFPG GMPGMGGPSARSRAQRLSLE PDRSPPSYAHHLPTMDPRRVNE LRAFEKMCKQDPSVLHTEEMR FLARECVESMCGKVPPATHKAM SEENTTEEKPDSEKAEEDLQAD\ EPSSEESDLRKLIEGVIEPDTD APQEMGDENAEIPEE\MMDQA NDKKVAAIEALNDGELQKAIDL FTDAIKLNPRLAILYAKRASVF VKLQKPNAAIRDCDRAIEINPD SAQPYKWRGKAHRLLGHWEE AAHDLALACKLDYDEDASAML KEVQPRAQKIAEHRRKYERKR EEREIKERIERVKKAREEHERA QREEEARRQSGAQYGSFPGGFP GGMPGNFPGMPGMGGGMPG MAGMPGLNEILSDPEVLAAMQ DPEVMVAFQDVAQNPNMSK YQSNPKVMNLISKLSAKFGGQ
6527	36895	A	6577	2	433	GPPLNLSSPRGGILKTYGCELCG KRFLDSLRLRMHLLAHSAGAK AFVCDQCGAQFSKEDALETHR QTHTGTDMAVFCLLCGKRFQA QS\ALQQHMEVHAGVRSYICSE CNRTFPSHTALKRHLRSHTGDH PYECEFCGSCFRDE
6528	36896	A	6578	1	687	
6529	36897	A	6579	2	449	

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6530	36898	A	6580	852	1084	TDAGCYAARQCGTAVPSRDV HIRHQGTPVPQF*TAPLRARS/E VSPARRRARM LSSASFASANIT TSSAWSDTLQP
6531	36899	A	6581	1	681	
6532	36900	A	6582	1	483	
6533	36901	A	6583	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
6534	36902	A	6584	1	678	
6535	36903	A	6585	3	634	
6536	36904	A	6586	4	479	CSAKTAIRGVSECLIH HHGIPHS TASDQGTHFTAKEVWQWAYA HGIHWSYHVLHHPEEA/GKER WNGLLKSQLQCQLGDNTLQG* GKVLQQAVYVLN*HPIYGTVP IARIH/GSRNQG/VETELTPLTITP SDPLAKFLLPVPPTLHSAGLEIL VPEGEIR
6537	36905	A	6587	1	1539	MVGKAKWKPLELPLPRKMVSQ KQYRILGGTAEISVTIKDLKDA RVVIPSTSPFYSPWPVQKIDGS WRMTEDYRKLNQVVTPTAAA VPDVVSLLEQINTSPGTRYAAID LTNAFFSIPFHKAHQKLFAFSW QGQQYTFTVLPWGDINSPALCH NLIRDPDCFSLPQDITLVHHID DIMLTGSREQEVADTRDFLVKD KLLHLAPPTTKKQAQHLVGLF GFWRQHIPLLGVL LQPIYRVTQ KVASFEWSQEQTALQQVQAA VQAVLPLGPYNPADPMVLEVS VADRDVCSLWQAPIGESQWR PLGFWSKALPSSADNYSPFERQ LLA/CHKVGHAQQHSISKWK*Y IHDRAQADYHPWTQACLIHCQ GIPHSIASDKDAHFTTKEVWQW THAHEIHWCYHVLHHPEAAAGL TERWNRLKSQLQRQLGDNTL QSGKVLQKAMYALNQHPYIG TISPIARIHGSSNQGEVAPLTIT PSDPLAKFLLCVPTTLRSAGLD VLVPEGGMTQQQFH

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6538	36906	A	6588	1	566	MGRNQSRKAENSKNWSASSPP KDHSSLPAMEQSWMENDEFDEF TEVGFRRSVITNFSELKEHVLTY CKEAKNVEKRIYRSRNQGMV KVAPLTITPSDPLANFFASVPAT LHSAGLEVLPPEGGLPLGDTT MIPLNWKLRRLRTGYFGLLRSL QQAQKKGAMVLA/GVVDPDYQ NEISLLHN*GKTHDH
6539	36907	A	6589	221	357	
6540	36908	C	6590	228	342	
6541	36909	A	6591	745	849	
6542	36910	A	6592	1	240	
6543	36911	A	6593	2	495	FVRLVGRGDCDPLLSVCLTTMP LYEGLGSGGEKTAVIDLGEA FTKCGFAGETGPRCIIPSGIKRA GMPKPVRVVQYNINTEELYSYL KEFIHILYFRHL\LVNPRDRRV\V IIES\VLCP\HFREDTHSCFFFKY FE\VPSVLLA\PS\HLMALLTLGI NSWHGPRL
6544	36912	A	6594	1	579	
6545	36913	A	6595	1	621	
6546	36914	A	6596	1	351	
6547	36915	A	6597	1	447	
6548	36916	A	6598	114	880	
6549	36917	A	6599	1	2625	
6550	36918	A	6600	1	1674	
6551	36919	A	6601	1035	2235	QTHSQYHTEWAKTGSIPFENW HKTGIPSLTTPIQHSVSSGQGN QAGEGNGKYSIRKRGSIQVPVC RRHD/VYI*KTPLSQPEISLS**A TSAKS/LGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLL KEIKEDTNKWNIPCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM PFFTELEKTTLKFIWNQKRARIT KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNLIFDKPEK NKQWGKDSLNFNCWENWLA ICRKLKLDPFLTPYTKMNSRWI KDLNVRPKTIKTLEENLGITIQD IGMGKDFMSKTPKAMATKAKI DKWDLIKLKSFCETAKETTIRVN RQPTK

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6552	36920	A	6602	369	1917	AGEKNKGYSIRKRGSQIVPVCR RHD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQTFLYTN NRQTESQIMSELPFTIASKKIKY LGIQHTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTSKFIWNQKRARITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYLYQNRDIDQWN RTEPSEMTPTHYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPKKWEKIFATYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKKHMKKCS SSLAIREMQIKTTMRYHLTPVR MAIIQKSGNNRCWRGCGEIGTL LHCWWDCCLVQHILTHRWE L NNEITWTQEGEYHTLGTVVGW GEGGGIALGDIPNAR
6553	36921	A	6603	1	2781	

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6554	36922	A	6604	1320	2403	LQTLQVYSNQNSMVLVPKQR YRSMEQNRLRN NATYLQLSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NSKKQSPSP PPKERSSSPATEQSWTENDFDE LREEGFRRSNYPELREDIQTGK KEEIQTIREYYKHL YANKLEN LEEMDKFLNTYTL PRLNQEEVE SLNRPITGSEIVAVINSLPTKKSP GPDGFTA EFHQRYKVELVPFL KLFQSIEKEGILPNSFYEASIIIP KPGRDTIKKENFRPISLTNIDAKI LNKILANRIQQHIKKLIHYDQV GFIPGMQDWFNIRKSINVIQHIN RTKVKNHMIISIDAEKAFDKIQ QRFMLKTLNKL AQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRLNIVK MAILPKVIYRFNAIPIKLPMTEFF TELEKTTVKFIWNQKRACITKSI LSQKNKAGGITLPDFKLYYKST VTKTAWY WYQNRDIDQWNRT EPSEIMPHIYNLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGV DKDFMTKTPKAMATKPKIDKW DLIKLSFCTAKETTIRAFDELD DVHPHEEIEACRVWQNYGTHP
6555	36923	A	6605	2202	2515	KSLQCEHSSHIQDLPLACLGLR KHYMVAQYL*HSHS/ASGGGSR YDVLKISVSCSSTIDI*LAFVSLG *DKRTS**TNLAESSPNFFHWV WIFLASKKFCSVPAR
6556	36924	A	6606	1934	2077	AIPFRIQAWARTSCPKHKKQWQ QKPKLTNGI*FN*RASAQQKKL PSE
6557	36925	B	6607	1	2325	

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6558	36926	A	6608	1524	2877	IRKRGSQIVPVCRRHD/VFV*KT PSSQPKISLS**ATSAKS/LGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFTELEKTTL KFIWNQKRARIAKSILSQNKNA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQCNRTPESEIMPH IYNLIFDKPERNKQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGITIQDIGVGKDFMSKTP KAMATKDKIDKWDLIKLSFC TAKETTIRVNRQPTTWEIFAT YSSDKGLISRIYNELKQIYKKKT NNPIKKWAKDMNRHFSKEDIY AAKHKMKKCSSSLAIRERQIKT TMRYHLTPVRMAIKKSGNNR DMDEIGNHHSQ
6559	36927	A	6609	1	2226	
6560	36928	A	6610	1	674	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQEN/CPQSSKAGQRSD SGNTENATKILLEKSNSKTHNC QIHQS
6561	36929	B	6611	1	5175	
6562	36930	A	6612	1666	2032	LQTLQGYSNQNSMVLVPKQR YRSMEQNRALRNATYQLQSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKH*T*NHKNPRRKP RHYHSGHRHGQGLHV
6563	36931	A	6613	1596	2169	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQAFLYTNN RQTESQIMSELPTIASKRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMFT FTELEKTKVHMEPKKCPHHQG NPKPKEQSWRHHTT

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6564	36932	A	6614	1667	3103	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTERQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLQE IKEDTSKWKNVPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMFP FTELEKTILKFIWDQKRARIAKS ILRQKNKAGGITLPDFKLYYKA TVTKTAWYWYQNRDIDQCNR TEPSEITPHIYNYLIFDKPEKNK QWKGDSL FNKWCWENWLAIC RKLKLDPFLTPYTKINSRWIKD LNIRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATNAKIDK WDLIKLSFRTAKETTIRVNRQ PTKWQKIFATYSSDKGLMSRIY NELKQIYKKKTNNPIKKWAED MNRHFSKEDIYAAKKHMKKCS SSLAIEMQIKTTMRYHLTPVR MAIIKKSGNNRLTLLNNHNNPQ PLISIKEPREKEELNLQV
6565	36933	A	6615	3134	3288	
6566	36934	A	6616	1	2630	
6567	36935	B	6617	877	7936	
6568	36936	A	6618	2	1589	
6569	36937	A	6619	1	240	
6570	36938	A	6620	200	486	
6571	36939	A	6621	1	558	
6572	36940	A	6622	1	3885	

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6573	36941	A	6623	1	2302	KL PVTNRAAHGLCASLGPDFM TFKVPSSWRHSDSICREWFTLA GAPSRDVLLVSAIITVLSVTVV LCGLCHWCQRKLGKRYKNSLE TVGTPDSGRGRSEKKAIVSRP CPPPAKASATHPTCKSPRSQEK VESPGDLDRDFWNNNESTVQQ KWSSYPPEFILNISPYAPYGDP RLSLNGTLLSGAKVAAAAGLA VEREGRLEKPPAPVPPPGEDAL RSGGAAPSEPGSGGKAGRGRW RTVQSHLAAGKLNLSNFEDSTL STATTLESIPSSTGEPKCQRPT LMRQQLQPLSQHQRGRQPS QPTTSQSLGQLAHMASAPGP NPRA YGRGQARQGT SAGSKYR AAGGRSRNPGSWDHVVGQIR NRGLDMKSFLTTSRAAKWNF TNSETVPALDLDSAVVLIPWISS KEDTGDSHYGRVAIYHKGLSFS SDGLVYPGAKGREGRMVVLSL VLGLSEQDDFANIPDLQNPQTQ QNQNAQGDKRLPAGGKAVNT APVPGQTPHDESDRRTEPRSSV SDLVNSLTSEMLMEDWPPAVF SSGWAIAATAHPASLHSPLIGYSF LAARGLLLLFEADFCWCKRSG STFPDCDGVANLAATEMALSQ LRFSKETAMRESLVMLSPGSEE DEAHEGCSRENLGRIQFSVGYN FQESTLTLKIMKAQELPAKDFS GTSDPFVKIYLLPDKKHKLKTK
6574	36942	A	6624	1	576	
6575	36943	A	6625	1	155	
6576	36944	A	6626	4746	5258	DAGAQPSLPRYLIYHQPSRFFRI TSTVTPFSKPISSLLWL V*/GLHG DILL/RLLQS*RC*CRSHPEYHSG PPGRWQGSPAPQKCSRTTSRS RSSR*HPPPPRPGGSAPSSPASYS WTPPRTVPGSWARRWRRHL SR PSWATQPSWTATLWSQPLWRL KWEDCLSPGRSRLQ
6577	36945	A	6627	1	588	

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6578	36946	A	6628	444	1056	GPLLREPHQLCHFPVAGFVLDA GLPEAAAAPHDRGPFLAGPQA AGQHPAQVAHQPRAAAQQRQ GRRAREEAGAQAQEEPRGPQE RRRRLAEGRLRRQCGHPAGRDG RGGYRRAAQGPARGGRTPEWQ QSGGARRTPSVGHPRRARAD\W CLTGANDALSCSSPTCGKFLKT VSKVPVCRRGLAVNRKEAEGR SSESPTSSATFQSPALSWMLVS QRLLPHMIGAQSSPGPKRPGN TLRKWLTSFVRLSSGKADGH VKKLAHKHKKSREVRKSADAG SQKDSDDSAATPQDETVEEDTV AQPRGRREGAGRQSGSRAAGP GGRRASAIRGGHARTDVGKRN GTRTRKELMPLHGKRKDAAEH DEPTSASRPAGERPELTAAVQ TEYNCSFPS
6579	36947	A	6629	128	1103	
6580	36948	A	6630	1	602	
6581	36949	A	6631	3	1618	
6582	36950	A	6632	1	602	
6583	36951	A	6633	3	1618	
6584	36952	A	6634	1	912	
6585	36953	A	6635	195	396	VLPLHRQI**LLH*SKKHNHYK GKQQDLR/CSSTVPRRPQGILPII SFSNVPVGSRRLLKAPLVFIGPG

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6586	36954	A	6636	2	1813	FNTPLSTLDRSSRQKVNKDIQD VISALHEAGLIDIYRTLHPKSTE YTFFSAPHHTYYKIDHIVGSKA LLSKCKRTEITTNCLSDRAIKL ELRIKKLTQNYTTTWKLNLLL SDYWVNNEMKAEIKMFFETNE NKDTMYQNLWDTFKAVCRGK FIAVNAYKRKQERSKIHTLSQ LKEPEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKISVSRSW FSERINKIDRLIARLMKKKREK NQIDAINKDKGDITIDPTMQTT IREYYKNLYANKLENLEEMDK FLDTYILPRLNQEEVELPNRPIT GSENEAIIINSLP/TKKSPGPDEFT AKFYQRYKGLARAIRQEKERE DTQLGKEEVKLLLFAEDMIVYL ENPIVSAQNLLKLINNFSKVSGY KINVQKSQAFLHTNNRQTESQI MSECPLTIASKRIKYLGIQLTRD VKDLFKENYKPLLNKIKEDTN KWKNIPRSWLGRNNIVKMTILP KVI/YKKTTLNFIWNQERARIAK TILSKKNKAGGITLPDFKLYYK ATVTKTARYWTLTIKKGSVWPI SLKSEKRGHRTRPLWLCHND VQGELLKTIQFLFGSPLGHSSLD
6587	36955	A	6637	1	2988	MPPHSEQPHSPSTRQKRKVPLF VRQCPSFVIQAPKAKMDTFDGR KKQFTRFLFLFSMDQLGQGRFS MQTLSFALAVYRKDSPLVACQ VQALGNLEPSSVEAHVSSHGIAI DRKGWHVSLFSIQPGDCFPKAL VEDSPRDRARRQQSSKEEGWC RDRRRLKFHSSKGAAAIVVKS KKYESPSFGVCFESLLNPPRLTS RREKTISSSKRCRQCHAEETTV VFWAKESQTGEQTGRGAGQRR MGMIICKACSMPLPAE
6588	36956	B	6638	362	1463	
6589	36957	A	6639	1	1061	
6590	36958	A	6640	1	1581	

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6591	36959	A	6641	46	862	AAFPAPRTLFFLSRPLRPTACAA FRPEFWRLNMKLPARVFFTLGS RLPCGLAPRRFFSYGTKILYQN TEALQSKFFSPLQKAMLPPNSF QGKVAFITGGGTGLGKGMTTL LSSLGAQCVIASRKMDVLKAT AEQISSQTGNKVHAIQCNVKYP DMVQNTVSELIKVQGHPTVIT N*STERSSISFLLPTIYA*DWFRF CSTQVLLPKQVWKPMKSLAA EWGKIWNAIQC
6592	36960	A	6642	1	2902	MVKGSLQQEELTILNIYAPNTE APRFIKQVLRDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKINKD TQELNSALYQADLIDIYGTLHP KSTNEYTFF\SAPHHTYSQNWTT IVGSKALLSEHKRTEIITNYLSD \HSA\KLELRIKKLTQ\NRSATW KLNNLLLNDYWVHNDMKA EI KMFETK\ENK\DTTYQNLW\DT FKAVCRGKFIK\NAHNRKQE\ RSKIDTLTSQLKELEKKEQTYL KASRRQEIT
6593	36961	A	6643	1	5127	
6594	36962	B	6644	1	3570	
6595	36963	A	6645	1	3663	
6596	36964	B	6646	143	3122	
6597	36965	A	6647	1	3235	
6598	36966	A	6648	1	3249	
6599	36967	A	6649	1	3297	

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6600	36968	A	6650	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPI TGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLCLKFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDA EKAFDKIQPFMLKTL NKL GIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSOKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKKSGNN
6601	36969	A	6651	1	3402	
6602	36970	A	6652	1	3288	
6603	36971	A	6653	1	3168	
6604	36972	A	6654	1	3516	
6605	36973	A	6655	1	3693	

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6606	36974	A	6656	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGDVGLEADFSPSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAMTTTTYSTGAAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWLRPTSHLPPCSSSAWW TEQTDHPLLFLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
6607	36975	A	6657	1	3514	MELKTKARELREECRSLRSRCD QLEERVSA MEDEMNMKREG KFREKRIKRNEQSLQEIWYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLRQANIQIEI QRT PQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
6608	36976	A	6658	3	3316	
6609	36977	A	6659	1	4794	
6610	36978	A	6660	1	3570	
6611	36979	B	6661	1	3384	
6612	36980	A	6662	1	3429	
6613	36981	A	6663	1	3780	
6614	36982	A	6664	1	3894	

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6615	36983	A	6665	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLEKEKQEQTTHSKASRRQE ITKIRAELEKETQ
6616	36984	B	6666	1	3145	
6617	36985	A	6667	1	4398	
6618	36986	A	6668	523	3852	
6619	36987	A	6669	1	3934	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
6620	36988	B	6670	1	5215	
6621	36989	A	6671	1	7171	
6622	36990	A	6672	3	493	
6623	36991	A	6673	1	729	
6624	36992	A	6674	3	800	
6625	36993	A	6675	1	327	
6626	36994	A	6676	2	462	KSSWLEEDDDPVVARVNRRMQ HITGLTVKTAELLQVANYGVG GQYEPHFDFSRRPFDSGLKTEG NRLATFLNYMSDVEAGGATVF PDLGAAIWPKKGTAVFWYNLL RTGEGDYR\TRHAACPVLVGCK WVSNKW\FHES\GQEFLRPCGST EVD

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6627	36995	A	6677	3	717	RHRLRNRLKDVGGGEAFYPLLE DDQSNLPHSNSNNELSAATLP LIIREKDEYQLNRILFDRLLKA YPYKKNQIWREARVDIPPLIRG LTWAALLGVEGAHAKYDAID KDTPIPTDRT/QLKWDIPRCHSV R*TVIHAPEGHAKFRRVLK\AW VVSHPDLYVWQGLDSLCAFL YLNFNNEALVYACMSAFIPKYL YNFFLKDNSHVIQEYLTVFSQM IAFHDPELS NHLNEIGFIPD
6628	36996	A	6678	1	508	
6629	36997	A	6679	1	888	
6630	36998	A	6680	2	584	
6631	36999	A	6681	2	152	QVAKGMDALLQHLEDCGYR/S SKKKAQICRQQVTKWGDGSAL MGTSTTASL
6632	37000	A	6682	733	894	
6633	37001	B	6683	1	1626	
6634	37002	A	6684	1	1971	MAQVWANDNPPGLAVNQAPV LIDVKPGAQPIRQKQYPVPREA LKGIQPGTKDYQPVQDLRLVN QATVTLHPTVNPYTLLGLLLA EDSWFTCLDLKDAFFSIRLAPES QKLFAFQWEDPQSDLGCILLY VDDLLLGHSTAVECAKGMVDL LQHLEDCRYKMSKKKAHICRQ QVRYLGFTIRKGER\WEREKM AVGVLTQTVGPWPRPVAYLSK QLD/EVSKGWPLCLRTLAATAL LAQEADKLT LGQNLNIKAPHA VVTLMTTEGHHWLTNARLTKY QSLPCENPHITIEVCNTLNPTTL LPVSESPGEHNCVEVLDSVYSS RPDLRDQPWASSVDWELYMD GSSFINSQGERCAGYAVVTLDA VIKAKLWLQGTSAQKAELIALT RAVELSEGQESLEELLGRYFYV SHLPFAKAVAQLCITCRQHNA RQSPTVSPHIQAYGAAPFEDLQ VDFTEMPKCGGNKYLLVLTCT YSGWVEAYPTRTEKPYKKGKN DPSC TKGQCNP LELVITNPLNP HWKKGERTVLGIDRARLDPRV NILVRGGEVYERSPEPVFQTFY DELNVPVPEIPGKTRNLFLQLA ECVAQPLNVTSCYVCGGTVTG YQWPWKARELVPVDPVPDEFL AQKNYPDNFWVLKPSITGQYCI
6635	37003	A	6685	1	1461	
6636	37004	A	6686	1	1005	

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6637	37005	A	6687	1	174	
6638	37006	A	6688	519	588	
6639	37007	A	6689	2	4527	GRAGLGWSSGGRGSRACSEGP AEARGREGDKGSAALSPPLPLT LGEEMAAERGARRLLSTPSFWL YCLLLLGRRAPGAAAARSGSAP QSPGASIRTFTPFYFLVEPVDL SVRGSSVILNCSAYSESPKIEW KKGDTFLNLVSDDRRQLLPDGS LFISNVVHSKHNPDEGYQCV ATVESLGTIISRTAKLIVAGLPR FTSQPEPSSVYAGNNAILNCEV NADLVPFVRWEQNRQPLLLDD RVIKLPSGMLVI
6640	37008	A	6690	1	879	
6641	37009	A	6691	407	594	
6642	37010	A	6692	1	3621	
6643	37011	B	6693	1	609	
6644	37012	B	6694	1335	1599	
6645	37013	A	6695	1	354	
6646	37014	A	6696	181	683	SRYFILLRKPTFPAMALLPVFL VTVLLPSLPAEGKDPAFTALLT TQLQVQREIVNKHNELRKAVSP PASNMLKMEWSREVTNAQR WANK/CTLQHSDPEDRKTSTRC GENLYMSSDPTSWSSAIQSWY DEILDFVYGVPKS/PQYCPAG NNMNRKNTPYQQGTPCPG
6647	37015	A	6697	199	969	
6648	37016	A	6698	1	564	
6649	37017	A	6699	153	427	
6650	37018	A	6700	1	978	
6651	37019	A	6701	3	419	
6652	37020	A	6702	9	255	VRAPAQGPDLAGRRRCGSGA SCTPSRGPASWSRSAAQVPRS SRWRAGSASS*/GRQPAPPTSQ PPRAQPFAQPPGPWPLS
6653	37021	B	6703	96	283	
6654	37022	A	6704	172	365	PTYHLYPCHFWYQHRTRRIPRK SERLFPTPPQLSWKGTWDY*I CLLCCNDSEGRDFLVLRVLK
6655	37023	A	6705	3	1171	
6656	37024	A	6706	2	740	
6657	37025	A	6707	256	461	
6658	37026	A	6708	1	414	
6659	37027	A	6709	1330	1386	YIDSILPK*NHDTLQSYCRYM\H SRQRAAS*PLSTGKLQCLGLD LVLC

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6660	37028	A	6710	207	1173	GGDRDRMTANHESYLLMASTQ NDMEDWVKSIRRVINGDLSCGGG IFGQKLEDTVRYEKRYGNRLAP MLVEQCVD FIRQRGLKEEGLFR LPGQANLVK\ELQDAFDCGEKP SFDSNTDVHTVASLLKLYLREL PEPVIPIYAKYEDFLSCAKLLSKE EEAGVKELAKQVKSLPVVNYN LLKYICRFLDEVQSYSGVNMKS VQNLATVFGPNILRPKVEDPLTI MEGTVVVQQLMSVMISKHDCL FPKDAELQSKPQDGVSNNEIQ KKATMGQLQNKENNNTKDS RQCSWDKSESP/TEKQHEQWIP HSSIRQQNQPKQEQWSQAI
6661	37029	A	6711	173	881	
6662	37030	A	6712	1605	1844	
6663	37031	B	6713	123	699	
6664	37032	A	6714	1	462	
6665	37033	A	6715	1	2607	
6666	37034	A	6716	1	918	
6667	37035	A	6717	1	549	
6668	37036	A	6718	1	687	
6669	37037	A	6719	1	258	
6670	37038	A	6720	90	1621	HGLDLRTMNRSRQVTCVAWV RCGVAKETPDKVELSKGGVKR LIAEAEKLEEGGGSDEEKTG SPLEEG\MQSARTQARP\REPLE\ DGD PED\DR TLDDDELA EYDLD KYDEEGDPDAETLG\ESLLGLT VYGSNDQDPYVTLKDTEQYER EDFLIKPSDNLIVCGRAEQDQC NLEVHVYNQEEDSFYVHHDILL SAYPLSVEWLNFDPSDDSTGN YIAVGNMTPVIEVWDLDIVDSL EPVFTLGSKLSKKKKKKGKKSS SAEGHTDAVLDSLWNKLIRNV LASASADNTVILWMSLGKPA ASLAVHTDKVQTLQFHPFEAQT LISGSYDKSVALYDCRSPDESH RMWRFSGQIERVTWNHFS PCH FLASTDDGFVYNLDARS DKPIF TLNAHNDEISGLDLSS QIKGCL VTASADKYVKIWDILG DRPSLV HSRDMKMGVLFCS SCCPDLPI YAFGGQKEGLRV WDISTVSSV NEAFGR RERLV LGSARNSSISGP FGSRSSDTPMES
6671	37039	A	6721	1	549	

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6672	37040	A	6722	1	1318	AKQQLNLRTHMADENKNEYA AQLQNFNGEQHKHFYVVIPQIY KQLQEMDERRTIKLSACYRGFA DSERKVIPIISKCLEGMILAAS VDERRDSQMVVDSFKSGFEPPG DFPFEDYSQHIYRTISDGTISAS KQESGKMDAKTTVGKAKGKL WLFGKKPKPQSPPLTPTSLFTSS TPNGSQFLTFSIEPVHYCMNEIK TGKPRIPSFRLKRGWSVKMG/ AALEDFSHLPPEQRRKKLQQR DELNRELQKESDQKDALNKM DVYEKNPQMGPGLQPKLAE TMNNIDRLRMEIHKNEAWLSE VEGKTGGRGDRRHSSDINHLVT QGRESPEGSYTDANQEVRRGP QQHGHNEFDDEFEDDDPLPAI GHCKAIYPFDGHNEGTLMKE GEVLYIIEEDKGDGWTRARRQ NGEEGYVPTSVIDVTLEKNSKG
6673	37041	A	6723	1	741	
6674	37042	A	6724	1	1063	MPFYISDLSICGDRILRALCPQD LPTYSLHSRGKMRASCSRKFLD NNSSRLVSCNMGALISIWGTTT PPLHATILDSQPTVHPPLAKDCL PCGLQASASDLRARALQRLCQ QLPWVGSQPHTRSPSPQRGGKT GLFAGLASSVSMRPASPPSPAA DSCSACRFFARRPPLRVTVVKP SSALALCVSISDSIPGNLKA LPAETRAQLHHAESLSQPPLQLRP FPKTSQAGDLQDLGPYVCVRK AVGKGDKQIRAVVKEHSVRSQ ERIWHPGITTANMPGHLGQNT ESGRDKLPMFGVWFPGRFWG LWVWRLP*LKLAAPCRPSRLR SSPISRRASTTRCLTVSGCPAAP
6675	37043	A	6725	25	573	
6676	37044	A	6726	1	483	

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6677	37045	A	6727	1	996	MVGKAKWKPIELPLLRKIVNQ KQYHIPGGVAKISATIKDLKDV GVVIPTTSPFNSPIWPVQKTDGS WRKWLS*QGQQFT/FTVLPHG YINSLALCHNLIRRLDHFSLPQ DITLVHYIDDIVLTGSSEGEVAN TLDLLTSLDWALVETECLTMG HQVTMQPELTIMNWALSDPSN YKVGCAQQHSIIKWKWYIRDQ ARAGTTCKWTAALQPLSRTS LKDSGERKSSQWAE LRAVHLI MHFAWKEKWPDPVQLYTD SWA VANGSAGWSGTWKNHDKWIA TTVIAQWAHEQSSHGSRNGGY TWAQQHGLPLTKADVATATDE CPICQQQRPTLSP
6678	37046	A	6728	2	1380	CLAGLFGFWSPCIPHLGVLLQSI YLVTQKAA/SSEWGPEQE KALQ EVQAAVQAALILEPYDPAGPVV LEVSLADRDAVWSLWQAPIGE SQQRPLGFWSKALPSSA/DHKA CHAAQQHSIIKWKWYIHDRARA GPEGTNSSARYAATM*KW/TAS ALQPLSRKSLKDSSEGKSSQWA ELRAVHLAVHVAWKEKWPDPV RLDTSWAVANGLARWSGTW KEHDRKIGDKEVWGRGTRIELS EWSKTVTIFVSH/VLLPRLPSIRG LTECLIHQHGIPIHSIASDQGTHF TAKELQQWAHAHGIHWSYHVP HHPG\WGKVLQKAVYALNQR IYEWKEESCLHTGVADALRGN WAEGRHREKALWLGLWSTWS QHPLRSLKTRHHPGLGVLS ICEAGGATEELSRASGFATGYG KRKEDTKKHQHSVSDIEQQH SLGLTEKTVKGTPTQGISM RPG LYHKATEFQE
6679	37047	A	6729	1	2229	
6680	37048	A	6730	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPDGPKHHC PPVKVGAYGGQVINGVLA\HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQQGQYTFTVLP QWYINSPALCHNLIRRLDCFS LPLDITLVHYIDDIMLIGSSEGE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ

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6681	37049	A	6731	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLSEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLCFSLPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWYVH DWARAGPEGT
6682	37050	A	6732	3	266	
6683	37051	A	6733	3	582	
6684	37052	A	6734	3	403	
6685	37053	A	6735	1	2712	
6686	37054	A	6736	875	1506	LSIYLVTDKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQQHSIIKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6687	37055	A	6737	1	633	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFALPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
6688	37056	A	6738	2	1103	DLWPFTRVTLHRGKRNDQTFQ GLLDTGSELMLIPEDTKHHCGP PVKVEAYGGQVINGVLAQIQLT VGPVGSNGTHPVVIYPVECIIGI GILSSWQNPHIGSLTSRKTGDS WRMTVHYHKLNQMVTPIAAAI PDVVSLLSEQVNTSPGSWYAAID LANAFFIPVHKAHQKQFAFSW QQQYTFTVLPQWYINSPALCH NLIRRDLCFSLPLDITLVHYID DIMLIGSSEQEVANTLDFVRH LRARGWEINPTKIQQPSTSVKFL GFQWCGACQAIPSKMRDKLLH LVPPTTKKEAQCL\QLLACY/W ALVETEHLTISHQVTMRPELPI MNWVLFDPSSHKVGCAQQHSII KWYVHVDWARAGPEGT

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6689	37057	A	6739	1	2058	
6690	37058	A	6740	2	1173	WEVRQYTFTVVPQGHINSLVLC HDVVRRDLGHFFLPQDITLVHY IDDIMLIGSTPPITKKKAQHLVG LFGFWRQLVPHLGVLLWPIYQ VTQQAASFEWGPEKEKALQQV QAAVQAALPLGPYDPADPMVL EVSVADRDVWVSLWQDPIGES QWRSLGFWSKALPSSADNYSF ERQLLACYWVLVETERLQWV TPAEEDFNNQVDRMTHSVDTT QPLSPATHVITQWAHEQSGHG GRDGGYTRVQQHGLPLTKADL ATAGKVFQKAV*ALN*HSIYGT LSLIARIHRSRNQGEVEVAPLT ISPSDPPAKFLLPVPPTLRSAGLE FLVPEEGMLPSGDTTVPLNWK RLPPGHFGLLPLHQQANKGVT VLVGVTDLQDEISLLPHNG
6691	37059	A	6741	823	2487	KELKLWKNRHKLLSYPTVGAA VTQLQNLTAMGVIGSHGARGQ VVALNRQRQGDLPFTRVTVH WGKG/NMQIFGGLDGTSELTL IPGDPKHHCPPVKVGAFGGQ VINGALARVQLVGPVGPWAHP VVISPVPECIHDIDILSSWQNP HIS SLTGRVRAIMVGAKWKSLEL PLPRKIVNQKYHIPGGIVEISA TIKDLKDAGEVIPTTFPLNSPI WPVRKTDGCWRMTVDYCELN QVVTPTAATVPDVVSLLEQINT SPGTWYADIDLANAVFSIPVHK AHQKQFAFSWQQQYTFTVLP QEYINSLGLCHNLIQRDLDFSL LQDITLVHYIEDIMLIGSTEQ EIA NTDLLFMAKEVWQWAHAHG IHWSYHVSHHPEAAGLIEWWK GLLKLQLQCQLGDNLTLEGW GK VLQKTVYALNQHPHYGTVSPIA RIHRSRNKGVEVAPFTITPSD PL PQFLLPVPATLCSAGLEVLAP E GGTLPPGDRTTIPLNWKLRPP EDFGLLPSLSQQAKKGVTVLAG VIHPDYQDEISLLHNGCKEDL
6692	37060	A	6742	3	350	
6693	37061	A	6743	1	3339	
6694	37062	A	6744	1	2271	

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6695	37063	A	6745	3	1377	AHLAADDFFCTK*GWVSG/LPQG LDKLTLPGANLEMQPENLKED LVYLKKNHEELSMAIKRNESM AKGLQRALLQQQPEDDSKCFP RPQDLIRLYDIILQLTLEDREGK GLSFSFACVDKDVSVKMDTVP GVNLSCILNEMRDQDKKLVEK SCKDAQGWFFSLKALLEGSLVE TEVCYRTQLAQLQGLIRSMEQQ LCELCCDAEHQDHEHQVLLDV KTQLEQEIATYSRLLEVEDAQL ATQYSLSLASQPTREDLEKAIL KFIWNQNRAQIAKTILSKSKA RGIMLPSPFKIYYKTTVTKTAWC WYKNRHIDQWNRIENPEIRPHT YNHVIFDKPDKRKQWGKDSLF NKWCWENWLAICSKLTLDPFL NPYTKVNSRWIKDLNLQPKTIK ILKENLGNAIQDTGKGKDFMTK MPKAIATKAKIDKWDLIKLSF CTALRNYQQSKPTTYRMGENF
6696	37064	A	6746	1	882	
6697	37065	A	6747	13	1402	STGSTHACDLLFSPSPVCLPPAA ATMTTSIR\QFTSSSSIKGSSGL GGG\SSRTSCRLSGGLG\AGSCR LGSAGGLGSTLGG\SSYSSCYSF GSGGGYGSSFGVDGLLA\GGE KA\TMQNL\ND\RLGSYLDKVP PWKEANTELEVK\RD\LVTRGR APGPARDYSQYYRTIEELQNKI LTATVDNANILLQIDNARLAAD DFRTKFETEALRLSVEADING LRRVLDELTLARADLEMQIENL KEELAYLKKNHEEEMNALRGQ VGGEINVEMDAAPGVDLSRILN EMRDQYEKMAEKNRKDAEDW FFSKTEELNREVATNSELVQSG KSEISELRRMQALEIELQSLS MKASLEGNLAETENRYCVQLS QIQGLIGSVEEQLAQLRCEMEQ QNQEYKILLDVKTRLEQEIATY RRLLEGEDAHLTQYKKEPVTTT QVRTIVEEVQDGKVISSREQVH
6698	37066	A	6748	2	452	FLLPSSFCTHSLLSPTITIVPGP DFNLASHIIPDTTPDPHDCISMIH LTFTPFPHISFFPVPHPDHA*FID GSSTRPNRHTPAKAGYAIAQAT IPPLRTSHFLSIVEIYPQGNFVS FHVLFYYSSGHIQAPSLPYTLRR DRRPGTSRA
6699	37067	A	6749	1	1791	

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6700	37068	A	6750	1	219	
6701	37069	A	6751	2	528	TLTVESKSIKAYKLSLQFPHTC PKTGHALQVSSGFVESPTVTIVP GLDINLASHTIPDNTPEPHDCIS LIHLTFTFPFHVVSFFPVPHPDHT WFIDGSSTRPNCHSPAKTGYAI VSSTLIIDATALPPSTTSQQAELI ALTRALTLAKGLPINIHTDSKY AFHILHHHAVI*AER
6702	37070	B	6752	1	1744	
6703	37071	A	6753	1	1376	MCKRMPGLQASQTVCPFYDKN YLDLKRKGTEIKRRERLKCGTK IERRKRLRDSERLEKRIKRGCLP DLKLSTEIQINRLRGLYTLLRKE RRFGLQETINYAEVTGIYVKELI EDREHLNSGKYIFNIFDIKVP VFGIIPYMLWEKKEGTKEGIK EGMKRESQKRIKWERSFITFIAL NTADRTLMSSAGCYRKQVKIHI DALPPNSQTLKKRGGASLIISF RRQSGPSAAGLWEFARGPFQTL FAWLSPAEEAEQQRLLPASSAE SFIAEGDPPDAGQSSPPSSLHAA AATMLMLEALKITNYAQLTLY SSPNFQNLFSSSHILTHLSADWL LQLYSLFVESPTITIVPGPDFNPA FHFIPDTTPDPHDCISLIHLTFT FPHISFFPVPHPDHTWFIDGSST RPNRHTPAKAGYA/DGRNTSYC VLSVGN SPLVPNPGSARCTEG GLLYARA
6704	37072	B	6754	400	820	
6705	37073	B	6755	1	1190	
6706	37074	A	6756	1	1002	
6707	37075	B	6757	1	3216	
6708	37076	A	6758	1	4020	
6709	37077	A	6759	1	1155	
6710	37078	A	6760	2	346	SSYLMHILSAPNLLQLYSLFVES PTITIVPGPDFNLASHIILDTPD PHDYLSDPDIHS/TFP/DISFFPV PHPGHTWFNDGSSTRPNRHSPA KAGHAIVFSTSIIEATALPPSTT
6711	37079	A	6761	189	1201	
6712	37080	A	6762	1	231	
6713	37081	A	6763	1	834	
6714	37082	A	6764	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
6715	37083	A	6765	21	706	
6716	37084	A	6766	1	158	

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6717	37085	C	6767	78	401	
6718	37086	A	6768	536	694	
6719	37087	C	6769	1	1410	
6720	37088	B	6770	1	1836	
6721	37089	A	6771	306	487	VGFLGILF/CFEAIVNVSSLMIW LSVCLLSVYKNACDFCTLILYP ETLLKLLISSSSLYLW
6722	37090	A	6772	714	1096	FFLPMSMECSSICLYPL/CISLRS GL*FSLKRSFTSLVSWIPRYFILC KSQGMRWLGLGSEA*YSCLLIL IRKITQNSVEVLGRRKFLGGGM EREVVMFLRAASSGIRGSVGT NFKSESRLHQISCASV
6723	37091	C	6773	1	2796	
6724	37092	A	6774	126	490	FFLPMSMECSSICLYPLLFPNAV VCSSP*RGPSHPL*VGFLGILF/C FEAIGNGSSLMIWLSVCLLLVY KNACDFCTLILYPETLLKLLISL RRFWAETMGFSRYIIMSSANRD NLTSSFPN
6725	37093	A	6775	1	550	
6726	37094	A	6776	578	865	MCPRDYGMLCLCSH\CFKEHLY FCLHFVMYPVVIQEQVVQFPCS *AVLSEFLNPEF*FDCTVV*ETV CYNF*SFTFAEKSFTSNSVVFNG IGVVWC
6727	37095	A	6777	1	2091	
6728	37096	C	6778	1	1458	
6729	37097	B	6779	1	504	
6730	37098	A	6780	70	511	NHASPGIRNLFHPRGLRAITIA VFCKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHSSTYDINRADTQVRRVNN YDIIA*ATVSMASRSIRCGSVGS LPSSNLPINSVSIRCRARQEGIM SSPGQQVGFIA
6731	37099	A	6781	3	306	
6732	37100	A	6782	1	3567	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
6733	37101	A	6783	386	550	
6734	37102	A	6784	1	594	

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6735	37103	A	6785	1	1324	MGKKQSRKTGNSKRQSASPPP KERSSSPAMEQSWMENDFDEL REEGFRRTNYSELQEGIQTKGK EVKNFEKNLDECITRITNTEKCL KELMELKAKARELREECRSLRS RCDQLEERHHTTPIPKLTTYLE VKLSPANVKEQVITNCLSDHSA IKLELRIKKPTQNPSTTWKLNN LLLNDYWVNKEMKSEIKMFFE TNENKNTTYQNLWDAFKAVCR GKFIALNAHKGKQERSKIDTLT SQLRELEKQEQTHSKVSRQEI TKIRAEPKEIETQKTLQKINESR SWFFERINKIDRRLARLIKKKRE KNQRDAIKNDEGDITDPTEIQT TIREYYKHL YANKLENLKEMD KFLNTYTL PRLNQEEAESLNRPI AGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEKLVFGAGYFGM WALAALPSNLLKLSQLCQAAA EVNVLVQFVCIC*SCLNSVRRQ
6736	37104	C	6786	1	1719	
6737	37105	B	6787	1	1098	
6738	37106	C	6788	1	1782	
6739	37107	A	6789	3095	3217	CRCLQMAM*WS*AIALSMKIS MSPRKPEV*IKVLAGLCCL
6740	37108	A	6790	1	5364	
6741	37109	C	6791	1	2505	
6742	37110	A	6792	37	1214	KLLQDL PFSINSSAVEKISMSTT GQVIRCKAAILWKPGAPFSIEEV EVAPPKAKEVRIKVVATGLCGT EMKVLGSKHLDLLYPTILGHEG AGIVESIGEGVSTVKPGDKVITL FLPQCGECTSCLNSEGNFCIQFK QSKTQLMSDGTSRFTCKGKSIY HFGNTSTFCEYTVIKEISVAKID AVAPLEKVCLISCGFSTGFGAAI NTAKVTPGSTCAVFGLG/VGVL SVVMGCKAAGAARD/IIGVDVQ QGRKF*GRAQELGATECALNP/Q ALKKPHFKEVLFDMTDAGIDFC FEAIGNLDVLAALASCNESYG VCVVVGVLPA SVQLKISGQLFF SGRSLKGSVFGGWKSRQHIPKL VADYMAEKLNL DPLITHLNL DKINEA VELMKTGKW
6743	37111	B	6793	1	2280	
6744	37112	A	6794	1498	1764	LVYLKVMGRMEPSWKTLCRIL SRRTSANLSKAGQCSDSGNTEN TTKILLKKSNSKTHNCQIHQS*N EGKNVKGSQRERSGYPQRGRPS

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6745	37113	A	6795	3	640	
6746	37114	A	6796	1	996	
6747	37115	A	6797	1	933	
6748	37116	A	6798	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRN *NRVKAIM/VGKAEWKTIPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHLKLLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFEWSPEQEALQVQAVV QAALPLGPYDPADPVLLEMSV ADRDVWILWQAPISESWRPP GFWSKALPSSADNYSPIFERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDDLSSPKMCHPQQ
6749	37117	A	6799	1	229	
6750	37118	A	6800	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEGKSSQWAEALQAVYLV VHFAWKEKWPVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAAEEFN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHCY IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
6751	37119	A	6801	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEALQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEDFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
6752	37120	A	6802	1	354	
6753	37121	A	6803	3	592	

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6754	37122	A	6804	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAAALPLGP YDPADPMVLVVSADKDAVWI FHLGSDRWRRTRYRCL
6755	37123	A	6805	1	636	MEFNDSMHNTFDHIWRTKEYD EAGWLLLSSLDKAMKENDEL DSNSQIQKQILSLQSSKIILNLTE GTVVTQLQNLNSVGIIQSQGR GQVAALSLQRQGASFEWSPEQ EKALQQVQTAVQAALPLGPYD PSDPMVFEVSVADGNAVWSLW QAPIGELQWRILEFWSKALPSS ADNYSFGRQLLACYWALVET EHLTVDHQVT/M*PELPIM
6756	37124	A	6806	1	672	
6757	37125	A	6807	308	470	
6758	37126	A	6808	1	1908	
6759	37127	A	6809	1	1218	MGIIGSRGGRGQVAALKRQRQ VTKKAASFEWGPEEEKALQQV QAAVQAALPLGPYDPADPIVLE VSVADRGAVWSLWQVPIGESQ QRPLGFWSKALPSSADNDSPFE RQLLACYCAI.VETERLDMGHQ VTMRPEVLIINCVLSDPSSH/QG WRLCMDSATWTSTYQ/A*PGY GHC*VPNLPAETNTDPSIWHH S/YG*LASYLVIG*LHWTSSIME GAEVCPHWNRHLLRI*VCLSCT QCFCE/SHPWIHE/ASYLPSWH ST*HCL*SRHSPYS*RSVAVGSC SWNSLVLPSPSS*SSWINRMV EWPFEVTITMPTR*QYSAGLGK SSSEGVCSESASNIWYCFRSRQ DSWVQESRGGSGGTIHHHF** PTSKIFASCFLDIMFCWT*GCS/S *WRNAATRRHNNNFI
6760	37128	A	6810	901	1142	GPEDLQGLFILSFQDPLL/SHPV CLEALAPFPSPVVPISFPPhVA GEFWLYPSGAA/RASSDAQSWT VIAVSPLRGLNSWG
6761	37129	B	6811	1	1452	
6762	37130	A	6812	122	1838	
6763	37131	A	6813	101	249	MTHVTALRTSSNLMRN*RKVG EAKSQQEH*S*QACHLKSRMSS SRLWIN
6764	37132	A	6814	1	1074	
6765	37133	A	6815	310	397	LTIWQDSNPGSCL*GCSVCAHA /CVGGQHMCV*PSYSLYLKSE PKEGTGRNKDPLNSQNRKGF LEQIHQ
6766	37134	A	6816	1	583	

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6767	37135	A	6817	1	486	
6768	37136	A	6818	2	1001	
6769	37137	A	6819	1	2307	
6770	37138	A	6820	3	393	
6771	37139	A	6821	1	1776	
6772	37140	A	6822	1	1140	
6773	37141	A	6823	1	558	
6774	37142	A	6824	2	798	PRVRIFFSITWYSLRVLTETSLW GGLILVVIITIQYDMTRTRNKYL HTNSLVALANMSAQFR\SLHQY AA\QRIIRLFSLLSKKHNVLEQ ATQSLRGSLSNDVPLPDYAQD LNVIEEVIRMMML\EHNSCL\TNS LHHNPNLGITPWLLQ\RRSLWN NFR\THPSFQGINGKILIWVIF/LS /SRLQGLAGKLGAELSERVLEI IKQGVRL\SLPKDRLKKFPELKFK YVEEEQPEEFFIPYVWSLVYNF SSRPVLGIPQDIPAVSPWVSD
6775	37143	A	6825	3	206	PSASRPWAHPALHPSVPARG WQPPTGLHPLREQRGLGQHM* QSSGQQPQGGVGPESHFGAL WAQL
6776	37144	A	6826	200	601	EMGSCDQWQRPCVPWEAVVM PRDP/LKMALAVVWPKMKAPR VTKRTP*LTSTHQLAGLTSSISE SLA*MRHSPGKTKMKQAARPP MTEITLPMMSGMKS/VQQQGEQE PDQRLQHSPPPLPPHVLLHWHP LVAQPQA
6777	37145	B	6827	25	1407	
6778	37146	A	6828	1786	1795	HC*LNALPSGETWGQKRGPLPG TQLPLPL/VPLRAPKGRSPKGSK GPTHHTWALSSFSLTSPQVTVG TEDQATSASGRPWLRTGTGPGG GRVWAGRDS\RGVPALTVLHV LSSLGRETP*RPCLRGPTAPAGP KRAPGKWLPWSQAPPCGCCPR *LSHVL*DRNRCAW*KGGGRG L/LRAPTPVPELAPHPCGPAPTL SKPLSSPNMPAQGLTQE*PGSV ANLPPYGPALLCLGRREWDER GQVG*VPTSEME*RRTEPLKT PGDCSAAASKIPSFFSNRTPFPPL CPHKNKLKGT
6779	37147	A	6829	1	311	
6780	37148	A	6830	1	402	
6781	37149	A	6831	1	750	
6782	37150	C	6832	130	450	

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6783	37151	A	6833	1	875	MRLRLKCLKVEQHVLYQKYS NNSWRYLSNRLLAPSDSPEWLS FDVTGVVRQW/VWSRGGEIEGF RLSA\HCSCDSRDNTLQVDINGF TTGRRGDLATIHGMNRPFLFM ATPLERAQHLQSSRHRRALDTK YCFS\STEKNCCVRQLYIDFRKD LGWK\WIHE\PKGYHANFCLGP CPYIWSLDTQYSKVLALYNQH NPGASAPCCVPQALEPLPIVY YVGRKPKVEQLSNMIVRSCKC NLGPAPPRPAPAGPAPRPAPV ALPMGAVFKDTRAPSPPGAPLK MERGKKKKKK
6784	37152	B	6834	162	635	
6785	37153	A	6835	2	1846	
6786	37154	A	6836	322	2104	
6787	37155	A	6837	1	352	
6788	37156	B	6838	92	1774	
6789	37157	A	6839	260	1016	
6790	37158	A	6840	479	1937	DVEHVGKMRRRWRRRVVVD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGWTHP VVIFPVPECIIGIDMLSSRQNPHT GSLTGRVWTIMVRKAKWKPLE LPLPRKIVNQKQYHIPEGIVEIS ATIKDLKDAGVVIPTTSPFNSPI WPVQKTDGSRMTVG YCKLN QVVTPIAAAVPDVVSLL EQINT PPGTWYAAIDLANDF
6791	37159	B	6841	20	26	
6792	37160	B	6842	2	207	
6793	37161	B	6843	187	405	
6794	37162	A	6844	451	770	LFLFLLSSHPRRSSASWYRHRH PHHPAARLPVADSASSSSSPSS SSPSPSSSSSSSPSSSFVYPHC QPPAPHFPH*HSR*QGRLFHFLP LPQLPSSPLSPWW
6795	37163	A	6845	1	417	
6796	37164	A	6846	191	314	
6797	37165	A	6847	129	212	

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6798	37166	A	6848	1	192	CALNAGL/IGENEAKRRRSKVT QEADFPGSMDGASNFRGDAI AGILIMVINIVGGLLVGVQLHG MSMGHAAESYALLTIGDGLVA QIPALVISTAAGVIVTRVSTDQD VGEQMVNQLFSNPSVMLLSAA VLGLLGLVPGMPSLVFLFTAG LLGLAWWIRGREQKAPAEPKP VKMAENNTVVEATWNDVQLE DSLGMATGLLT*PIFRAQWTGQ VTLFAAMPSPGSSWSLTLASG CWSACCNMA
6799	37167	B	6849	65	1129	
6800	37168	B	6850	46	1038	
6801	37169	A	6851	2	413	PSFQGPVSLPSITVVSIDSQASKP LKTPQLWCQLRQYSFKHSFLV VPTCPVPLLG*DTLTKLSASLTI PGLQPHLIATHLNPQVEDTSIPS LATYHAPLTISLKPNNHPYPSQC QYPIPQHALKGLKPVITHLLQH
6802	37170	C	6852	35	346	
6803	37171	C	6853	239	484	
6804	37172	A	6854	1	1020	
6805	37173	A	6855	3	131	
6806	37174	A	6856	1	956	MAGALPPASLPPCSLISDCCASN ERSSMGIGPSEPCAGYNLLVCR LTKKKRIRSTNKVWDYVKRPN LRIGVPEEEENS KSCENILGEIIE ENFPSLATDLDIQIEAQRTPQK FITERSLPRYIVIRLSKVKTKERI LRAVRQKHQIFLTQRLKTNTAQ SPQKLPGPSQTLLVTLTREITIVP GLDFNPASHIADTTPDPHDCIS LIHLTFIQPHISFFPVPHPDHTW FINGSSTRPNRHSPAKAGYAIVS STSII EATTLPSSTTSQQA FIAL TQALILAKGLCINIYADSKY/AF HILHHHAVIWAERDTFTG
6807	37175	A	6857	1	1269	
6808	37176	A	6858	1	741	
6809	37177	B	6859	411	1257	

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6810	37178	A	6860	438	3997	SPLPHSTPISHPAACFKKIKACY HLPATAWPFKAYKLSLQFPHFT CPKTRQGLQHNSHKNTRALPD YRLRLISQTPISTKQQLSFLG MVSKVRILTQELGPRPIAFLSKQ LDLTVLTQPSC LHAAAAAALIL LKALKITKYAQLTLYSSHNFQN LFSSSYLMHILSAPWLLQLYSLF VESPTITIVPGTDFNPASHIILDT TPDPHDCISLIHLTFTPFPRISFFP VPHPNHIWFDGSSTRPKCHSPA KAGY
6811	37179	A	6861	245	505	
6812	37180	A	6862	346	522	PAPEFWVHG*NVSPLSL*SKEQ EDRGFISQGRSPDL SHGTFKHV RPCEETTKQALCEQH
6813	37181	A	6863	3	879	SGDLPWEINPPSSYTLLCEKDP TTSGPQTNQPKKH/LTNFKSETK ETRFIRGPTTPAPVTDWEGSLPL VFNHSRDTSLIHPGFRGVRPRR DACLGPSPLAASPTFLGKGPA PRQTELGPNSSASAPPPYNPFI ASPPHTWSGLQFSPMTSPPPPA QQFTLKKVAGAKGIVKDLINLT FKVYNRKKLQFLASTVRQTP ATSPA HKNFQTPELQQPGVPPE PPRGACYKFQKSGHRAKECLQ PRIPKPHPICVGPHWKSDCPTH LAATPRAPGT LAQGS LTPSQIFL
6814	37182	A	6864	143	331	DTSTPSLVTDHASLTISLKP NHF YPD*CQYPIQHALKGLKPVITC LLQHGLLKPINSPYPR A
6815	37183	A	6865	1	783	
6816	37184	A	6866	32	415	WRHALKGLKPVITRLLQHGLL RPINSPYN SPFLLVLEPDKPYRK RK*ISPPNRHILASVEVLKNQVN SHEFERSALIHTLTSG LAPCSLH KMCSKLPRSFLSVSGTGKEAR SKILTFRTASRHLVL

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6817	37185	A	6867	1	1374	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKPTETKTAW YWYLNRDIDQWNRTEPSEITPH TYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPF FTPYTKINSRWIKDLNVRPETIK TLEENLGITIQDIGVGKDFMSKT PKAMATKDKTGKWDLIKLSF CTAKETTIRVNRQVAALLNSA VFQNAVEVVVWPSSEVHVKFL FCKIISCAGQKQPIKFDGSSSL GVATAMMSATIAHLKRIKACY RSPVTAWTFKAYKLSLQFPHT CPKTGQALQ*HT*KGLKPVIAH LLQHGLLKPINSPYNSLILPVQK PDKPYRKLESFTSKAIKWHQIPS VPGKHLC**GS*RSPVTAWTFKA YKLSLQFPHTCPKTGQALQEA GVIHFKGHQMASDPITQGNTYA NKVAKEAASVLTSVPHGQFFSF SSVTPTYFPTEIDFTYMPQVRKL KHLMV
6818	37186	A	6868	122	281	
6819	37187	A	6869	2	2144	
6820	37188	A	6870	224	418	LSQWRHALKGLKSVITRLL*HG LLKPINSYNSPIVPVLKPKDKTY RKVESFTAKTIKRCQIPLL
6821	37189	A	6871	5	289	
6822	37190	A	6872	1	2205	
6823	37191	C	6873	1	2082	
6824	37192	B	6874	1	1614	
6825	37193	A	6875	1	2067	
6826	37194	A	6876	1	1152	
6827	37195	A	6877	1	798	
6828	37196	C	6878	488	788	
6829	37197	A	6879	90	765	NTVFGVLVLPLELKLRIFRLLD VRSVLSLSAVCRDLFTASNDPL LWRFLYLDRDFRGDFRNDIYSWT TKDFEYYINLVDKTEARFEKVD SDFESFTVGKMPSNSIACTEKSF MKGRVSQCDKKPVITRLLQH LLKPINSYNSPILPVLPKPKPY KLVQDLHRINQIVLPIHPCGAQP HTLFCPQYLPPLTIPVPDLKDA FFTIPLQSSQPLFAFT*TDPDT

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6830	37198	A	6880	1824	2286	PRVLRPNsprnispisnrifsd*R CPIASEASWTITDALG/RLLQWR HGLLNpINSPYNPILPVQKPKD PYRLVQALLSLPQLPLFLAWTSI WPPTLFRITLLNPMTVSL*ST*H SLHFPMFPSFLFLITLGLLMA VPLGLIATHQRRAML
6831	37199	A	6881	930	1289	LSQWTDGLLKPMNSPYNSPILP VLKPKPYK*VQDLRLINQIVL PIHPVV\PNPYTLSSIPPSTTHY SVLDLKLAFFTIPLHPSSQPFFAF TWTDPDTHQAQIT*AVLPQSF SDSPHE
6832	37200	A	6882	2	196	IHGCKFIQCKRILSNFTEVADHV HDQIRL*TGIRLLTQPQPRLSR HQVAQHSVCRYLCQLPLL
6833	37201	A	6883	2	1441	LNQEEGESLNRPIGTSEIAINS LPTKKSPGPDGITAIFYQRYKE ELVPFLVKLFQSTEKEGILPNSF YEASILIPKGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHNGQHINRTNDKSHIISIDA EKTFGKIQQPFMLKTLNKLID GTYLKIIRAIYDKPTANIILTGQ KLEAFPMKTGTREGCPLSPLLF NIVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLRLISTFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKALLNEIKEDINKWKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFIW NQKSARIAKSILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNTTEPSEIMLHIYN Y/LIFNKPEKNKKWGKDSL FNK WCWENWL

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6834	37202	A	6884	69	2415	DKTSRGTIRQQRLRFTNIRCSAA TAADIQANRVWRGPPANSNRP AA\RVLTVRRKTNKQKGHPHQ KPICTSPSSNTKEIQTTIREYYKH LYANKLENAEERDKFLNIYTLF RLNQKEVESLNRPTGSEIEAIHK SLPTKKSPGPDGFTAKFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPRDRTTKENFRPI SLMNIDARILNKILANLIQQHIK KLIHHDQVGFIPGMQGWFNICK SINIIQHMRNTKDKNHMIIISDA EKPFDKIQPFMLKTLNKLDDID GTYLKIVRAKYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAEREIQRKEIKGIQL GKEEVKLSLFVDDMIYLENPIV SAQNLLKLISNFSKVSQYKISVQ KSQAFLYTNNRQTESQTMSELP FTIASKRIKYLGIQLTRDVKDRF KENYKSLSEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFIR NQKRARIAKSILSQKNKAGGIT LLDFKLYYKATVTKTAWYWY QNRHVDQWNRTEPSEIMLHIY NYLIFEKPDINKQWGKDSL FNK WCWENWLAICRKLKLDPLTS YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGMGKDFMSKTPK AMATKAKLKDWDLIKLSFCT AKETTIRVNRQPTGWEKIFATY
6835	37203	A	6885	1	2358	
6836	37204	B	6886	1	1443	

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6837	37205	A	6887	452	2913	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQNR ATWKLN/MLLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEQT SKVSRRPISSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELVPFL LKLFSIEKEGILPNSFYEASILI PKPGRDTTEKENFRPISLMNIDA KILNKILANRIQQHIKKLLHHDQ VGFIPGMQGWFNICKSINVQHI NRTSDKNHTIISIDA EKAFNKIQ QLFMLKTLNKLGTNGMYLKIV RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIQIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINLQKSQAFLYT NNRQTESQIMSELPFTTASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWRNIPCSWVGRIN IVKMAILPKVTYRFNAIPIKLP TFFTELEKTILKFRWNQKRAHI AKTILSQKNKAGGIRLPDFKLF YKATVTKTARYWYENRDIDQ WNRTEPLEIMPHIYNHLIFDKPD KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTSYTKINSRWI
6838	37206	A	6888	1	1677	

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6839	37207	A	6889	2	2400	SMRQKENKDIQDLNSALHQAD LIDIYRTLHPKSTEYTFFSAPHCI /RTYSKIDHTLGSKALLSKCKIT EIITDSQTTVLSELRIKKLTQ\NR SATWKLN/MLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLMSQLKELEKQEQT HSKVSRRPISSEIEAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPGRDTTEKENFRPISLMNI DAKILNKILANRIQQHIKLLHHI DQVGFIPGMQGWFNICKSINVI QHINRTSDKNHTIISIDAEKAFN KIQQLFMLKTLNKLGTNGMYL KIVRAIYDKPTANIILNGQKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIHQEKEIQGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINLQKSQA FLYTNNRQTESQIMSELPFTTAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWRNIPCSWV GRINIVKMAILPKVTYRFNAIPI KLPMTEFFTELEKTILKFRWNQK RAHIAKTILSQKNKAGGIRLPDF KLFYKATVTKTARYWYENRDI DQWNRTEPLEIMPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI CRKLKLDPFLT SYTKIN SRWIEDLNVRPKTIENTLEENLG
6840	37208	A	6890	1	1515	
6841	37209	A	6891	1	1428	

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6842	37210	A	6892	150	1920	NYQCREVLKGPDGAENHGTRT T*RMHK\LSSQFSQLEERVSGM EDQTNETKTDTHRLKIKGWRKIY QANGKQKKAEEAILVLDKTDF KPTKIKGDKQGHYIMVKGSIQQ GQLTILNIYAPNTGASRLIKQVL RDLQRDLDSHTIIMGDFNTRL TLDRSTRQRLNKDIQELNSALH QVDLIDIYRILHTKSTEYTFSSA PHHTYSKIDHTVGSKALLSKGK RTEIITNRLSDHSAIKLELRIKEL TQNRSTTWKLNLLNDYWNL WDTFKAVCRGKFIALNIQKRK QERSKIDTLTSQFKELEKQEQT HSKASRRQEITKIRAEKERETQ KSLQKISESRSWFFKINNIDTP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTIRQYYKHYAN KQENLEEMNKFLDTYTLPRLN WEEAESLNRPITGSEFEAIINSLP IKKSPGPDGFTAKFYQSYKEEL VPFLKLFQSIEKEGILPNSFYE ASILIPKGRDTTKKDNFRPISL MNIDAKILNKILANKIQQHSKK LIHNNQVGFIPGMQGWNTCKS INIIQHINRTKDKNHMIIISIDAEK AFDKIQQPSC
6843	37211	A	6893	1	1797	

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6844	37212	A	6894	2	1880	APNTGAPRFIKQVLSDLQRDLDSHTIIMGDFNTPLSTLDRSMRQKVNKDIQELNSALHQADLIDIYRTLHPKSTEYTTFSATHHTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRIKKLTENRSTTWKLNNLLLNDYWVHNEMKAEIKMVFETNDTLPRLNQEEVESLNRPKTGSEIEAIINSLPTKKSPGPDGFTAEFYQRYKEELVPFLCLKLFQSIEKERILPNSFYEASIIIPKGRDITKK/EENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQLGFIIPGMQGWFNICKSMNVIQHINSPKDKNHMIIISVDAEKAFDKIQQPFMLKTLNKLIGIDGTYLKIIRAIYDKPTASIIILNGQKLEAFTLKTGTRQGCPLSPLLFNIVLEVLRARIHQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLLKLIGNFSKVSGYTINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDFFKENYKPLLNEIKEDKNKWKNIPCSWVGRINIVKMAIPPKVIYRFNAIPIKLPMTFFGMIFLSQKYGHVTLFRLLQWLLNVARNNNKVIFYKIYKVGHKLSSAYVLCLTCSHFSVSFL
6845	37213	B	6895	13	1506	
6846	37214	A	6896	1	6635	MTPESRDTTDLSPGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERALLSSYLVA YRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIPLSDNTISRRICTIAKHLEAMLITRLQSGIDFAIQLDESTDIASCPTLLVYVRYIPLKLRLGGLLQPEKPIVLKVESRDGTIQYNSQQHINLSAAWLKTAVQGREAPGKQPSKQQHSAKRKTHRTQLKKESGDGPHPKFGGGNLASP
6847	37215	B	6897	1	3045	

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6848	37216	A	6898	1	2764	MARELHDKCTSFSSRFDQLEES LSAMEDQMNEMMREEKFREK RRKRNEQSLQEIWVYKRPNL HLIGVPESDRENGPKLENTLQDI IQENFPNLARQGNIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTIREYYK HFIYANELENLEEMDKFFETYTL PRLNQEEVESLNRPTGSAIEAH NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FHEASIIIP
6849	37217	B	6899	1	3549	
6850	37218	A	6900	387	541	
6851	37219	A	6901	1	545	
6852	37220	A	6902	71	370	RRCKVRPSARGVLRVAVCVCV CVCVYPCVHVCTCVRMCLCVC VCVCE/CSVEIHCGGQGCARCIC LQPQEGGCTEQAVAHCAAQL WRNRLKLMKQPVARV
6853	37221	A	6904	1	738	
6854	37222	A	6905	1	567	
6855	37223	A	6906	1	1416	
6856	37224	A	6907	3	1267	
6857	37225	A	6908	1	552	NALPGRKSRVFSGCVSADTWK PPSSAKVTETKGASPAFLRAGQ PRLVPGETLEKSLGPGKDPQVE PQHPVHLPGISSEGFPWDGFNE QTPKD\LPNRDGGAWVLGYRA GPACPFLHEEREKSNRSELYL DLHPDHSLTEQDDRTPGRLQA VWPPPKTKDTEEKVGLKYTEA EYQAAILHLKRE
6858	37226	A	6909	1	561	
6859	37227	A	6910	219	1343	RRLCHTQPTLGMRESELVNV CVHSVFSLSVQAMQEKADEAK AETIQALYHQTLEALQTLLKAL FIEDPTPAGLKSILEALGPWMNS GKAHERARAVNTNVSVLNHM LLTLPFFMPLGFPALGLLGRLI LHIGDPDEEIGCEALDGHIIYTI LELQKRARDKEETNKKELYES NKHFLGPYNPVSPCQNILRVIEE FGDFLGPQIKDLLAALEGLK GSSEAPGKDSREMMQLASEVM LSSVLEWYRHRALEVIPEIMQGI YMQLSHIQEPRARQVALLPVSL LASSFMTEVVVALLMCPLPLNR QPAACASSCPSTAAWAV*GAST LSCSWPCSFRSITTSASTCLAAW LLPRTPRRVHSPLSYLCAGW

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6860	37228	A	6911	3	730	
6861	37229	A	6912	2	1218	ERKCMQGKYAGAMESEPCVCT EADFDYCDYGYERHSNGQCLPA FWFNPSSLSKDCSLGQSYLNST GYRKVVSNNCTDGVREQYTAK PQKCPGKAPRGLRVVTADGKL TA\EQGHNVTLMVQLEEGDVQ RTLQVDFDGDGIAVSYVNLSSM EDGIKHVYQNVGIFRVTVQALV RLPPHISQCDEVFRFFEARPEDV NPPKDQALLLGELGPAVELCLK EERFADAIHLAQAGGTDLKQT QERYLAKKTKISSLLACVVQK NWKDVVCTCSLKNWREALAL LLTYSGTEKFPELCDMLGTRME QEGSRALTSEARLCYVCSGSVE RLVECWAKCHQALSPMALQD MHVISTDENQVFAAVQEWNQN DTYNLYISDTRGVYFTLALENV QSSRGPEGNIMIDLYEVTI
6862	37230	A	6913	1	1659	
6863	37231	A	6914	540	824	KPRLINYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWDYVKDQ IYVRLVYLKVTGRMEPSWKTL CRILSRRTSPI
6864	37232	A	6915	1	939	
6865	37233	A	6916	285	458	QVFSQLEGRIALGKFQRPSSLPT GKWTQRCWWGAQWE*D*LFG LHGWWVRPVIAGFP
6866	37234	A	6917	32	171	
6867	37235	A	6918	294	461	
6868	37236	A	6919	2	255	LIPCPATVNNVSDIMGMYMKE CSASLITREMQIRTTIMRHHLTS IGTEMIRK/SKNNECWSGRECQ TVGAGQCVRAPCASRSRHRH
6869	37237	A	6920	2	393	
6870	37238	B	6921	87	633	
6871	37239	A	6922	78	260	TQYLRWKCRNHRLLRRSCWEL *TRAVPIRPSWLQNRVYQGTSRF CVCFEESGTPSTQLEI
6872	37240	A	6923	1	369	FVLHEKCLGPFITWGNTNVM VKKICAPT*TKHVW*LES*M WEEPRWPN\GKAPVYSSQREQR RRRVISAFPSEGVLPTFKNKKF TVKQPQVGRSVGIPEGIVIGD GQLQGCLLPLKTF
6873	37241	A	6924	3	201	LKEMQINTTMRYHSTPSRTS*VI KKTDDNNKFWMRMTEKLETSY CWECETMQPRWKVSLQYLL PLI

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6874	37242	A	6925	1	2064	
6875	37243	A	6926	95	752	
6876	37244	A	6927	2237	5072	RAKSPANIIMTGSNSHITILT VNLNSPIKRHRSLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSHSAIKL ELRIKNLTQSR
6877	37245	A	6928	3	331	
6878	37246	A	6929	364	853	
6879	37247	A	6930	2	531	RPRVRELVGGSALQALKEWNTT GKLRINH*KRCGSTQHHGSKYA TDKEERPD\ACPLQPQPPIQNG PMNGCEKDSSTDSANEKPALI PREKKISILEEPSKALRGVTGPNI EKSADLQRCVSLTRYRVMIK EEVDSSVKKITAFAELHNCIID KEASLMAEMGTVNEQAMRC
6880	37248	A	6931	1	456	ISILEEPSKALRGVTEGNRLQ QKLSLDGNPKPIHGTTERSDDL QWSAEQPCNPSKPKAKTSPVKS NTPAAHLEIKPDELAKKRGPN EKSVDLQRCVSLTRYRVMIK GEVDSSVKNIAACAEPFICIID KEVSLMAEM\DKVKGKRPW
6881	37249	A	6932	333	964	
6882	37250	A	6933	240	691	
6883	37251	A	6934	1	2076	
6884	37252	A	6935	14	485	RRSLESVLSRKLNPFF*KATGTSR SESAVWAIIDAVSSPQKRLDSE FIDPLMNKKARISHLTNRVPPTL NGHLNPTSEKSAAGLPLPPAAA AIPTPPPLPSTYLPISHPPQIADS HSPAAPVQGIQPFLLTADQYWLE NRYPSQHLSRVLTASRARHQT
6885	37253	A	6936	1	643	
6886	37254	B	6937	1	408	
6887	37255	A	6938	2	197	
6888	37256	A	6939	103	298	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
6889	37257	A	6940	117	257	

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6890	37258	A	6941	46	219	LKECNCIVCNSKNKCLKG*KKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEGRRGRGRGRRR RRRRRRKKK
6891	37259	A	6942	1	1314	MVSRIWSWISEAQCLCRPSGT YGPGEAALLLWLCIEAAAAAA AARSTTTPIITNHQSNIAEQNP PRHENGDPKTYIIHVLAEQVLE RLPHGVALRHDPLAPVVSRA GVGHQRC AADDALQPLLQGRP EPGLAERHGVQDNILKVSHTH TQKSAEKRAVSDPSSTVHRPQP LPPSTVHQSTIPSNPDSSAYCL PSTRHGFSSYTDSFVPPSGPSNP MNPTIGNGLSPQRVHYQHLPTH AGGKRNAALEYGVPRKYHYM LKITASDYEKTKPFQVGDKVM GSGWRKVGMQT*FL*LKKEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEENSLSLTE
6892	37260	A	6943	1	160	
6893	37261	A	6944	1	306	
6894	37262	A	6945	1	933	MWLARELEESLAVSLQGEPGL LAGAGRLQGSPFSPHMEPGRQS ETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE DQLDTM\FGTHQQTSPTQRSAR RRPCSVQGPRS*SPFSPHMEPGR QSETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEDQLDTMLWDSSTNLNTAL SKEKTMFSSRAKIVKPNGEKPD EFESGISQALLELEMNLDLKAQ LWELNITAAKEIEVGGGRKAIH FVPVPQLKSFQKTQVQLRRILP KPTQKSCNTNNKQKLPRSCTLTA VHDAILEDLVFPSEIVGKRIHVK LDGSHLIKIHLDQAQNNVEHK VEPFGVYKKLMGKDVNFEFP
6895	37263	A	6946	1	1365	
6896	37264	A	6947	416	610	EFKKPVLEGG A*RGEGGSPCV WSFFDPVHFNYQAGLFRVALP GEQCRTGRLVARVYTGISGASF
6897	37265	A	6948	1	846	

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6898	37266	A	6949	3	620	HVTLIVVTQSHLVIHNLFEGLMI WFIVPISCVICNDIMAYMFGFFF GRTPLIKLSPKKTWEGFIGGFFA TVGFGLLLSYVMSGYRCFVCP VEYNNDTNSFTVDCEPSDLFRL QEYNIPGVIQSAIGW\KTVRMY P\FQIHSIA\LSTFASLIGPFGGFF ASGFKRAFKIKDFANTIPGHGGI MDRFDCQYLMATFVNVIACV LRPL
6899	37267	A	6950	50	554	
6900	37268	B	6951	446	625	
6901	37269	A	6952	1	2149	
6902	37270	A	6953	1	1704	
6903	37271	A	6954	1	1853	
6904	37272	A	6955	1	1305	MVKGSIQPEELTILNIYALNTGA PRFIKQVLRDLQRDLDSHTIIMG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADIIDIYRTLHPKST EYTFFSAPHHTYSKIDHIVGSKA LLSKCQRIEITNCLSDYSAIKLE LRIQKLTQNCSTIWKLNNLLLN DYWVHKEMKAEIKMFFETNEN KDTTYHHLWDTFKA VCRGKFI ALNAHKRKQERFEMDTLTSQL KELKKQEQTTHSKASRRQEITKI RAERKEIETQKTLQKINESGSW FVEKINKIDRPLARLIKKKREKN QIDAIKNDKGVITTDPTIEIQTIR EYYKHL YANKLENLEEMDKFL DTYNLRLRNQGEVESLNRPIG SEIEAIINSLP/TKKSPGPNGFTA KF*QEELTILNIYALNTGAPRFI KQVLRDLQRDLDSHTIIMGDFN TPLSTSDRSTRQKVNKDIQELN SALHQADIIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCQRIEITNCLSDYSAIKLELRI QKLTQNCSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYHHLWDTFKA VCRGKFIAL NAHKRKQERFEMDTLTSQKE LKKQEQTTHSKASRRQEITKIRA ERKEIETQKTLQKINESGSWFV EKINKIDRPLARLIKKKREKNQI DAIKNDKGVITTDPTIEIQTIRE YYKHL YANKLENLEEMDKFLD
6905	37273	A	6956	1	1926	